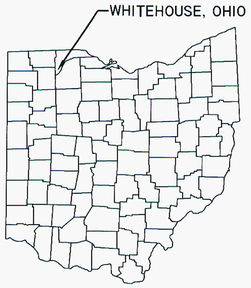
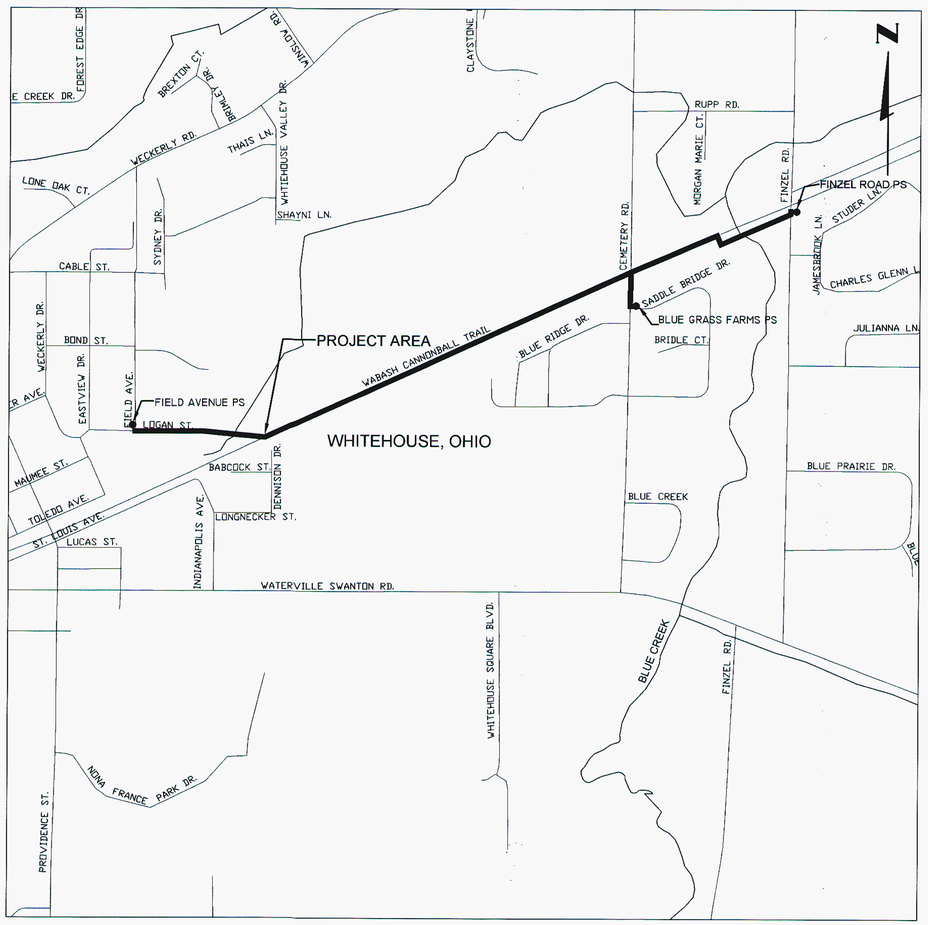


VILLAGE OF WHITEHOUSE, OHIO

WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

2020

MAYOR – DONALD ATKINSON
VILLAGE ADMINISTRATOR – JORDAN DAUGHERTY
DIRECTOR OF PUBLIC WORKS – STEVEN PILCHER



LOCATION MAP

0 3750 7500 14000
SCALE IN FEET

DESIGN ENGINEER:
JONES & HENRY ENGINEERS, LTD.
3103 EXECUTIVE PARKWAY
SUITE 300
TOLEDO, OHIO 43606

VILLAGE OF WHITEHOUSE
6925 PROVIDENCE STREET
P.O. BOX 2476
WHITEHOUSE, OHIO 43571

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

STATE OF OHIO
THEODORE A. BENNETT
E-70768
REGISTERED PROFESSIONAL ENGINEER

5/29/2020

APPROVED BY:

DONALD ATKINSON — MAYOR — DATE 6/8/20

JORDAN DAUGHERTY — VILLAGE ADMINISTRATOR — DATE 6/8/20

STEVE PILCHER — PUBLIC WORKS DIRECTOR — DATE 6/8/20

Ohio Utilities Protection Service
Call 811 before you dig

Jones & Henry Engineers, Ltd.
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STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020

TOL: 74L0800\COVER-COVER SHEET
5/29/2020 10:32 AM ANTCHELL
5/29/2020 2:05 PM

BENCHMARKS

POINT #	RAW DESCRIPTION	NORTHING	EASTING
300	CHISELED "X" ON NORTHWESTERLY BOLT ON TOWER BASE	679529.73	1617008.82
301	CHISELED "X" ON NORTHWESTERLY BOLT ON TOWER BASE	679231.53	1616353.09
302	CHISELED "X" ON NORTHWESTERLY BOLT ON TOWER BASE	678904.14	1615634.96
303	CHISELED "X" ON NORTHWESTERLY BOLT ON TOWER BASE	678568.84	1614898.28
304	CHISELED "X" ON NORTHWESTERLY BOLT ON TOWER BASE	678220.64	1614132.23
305	CHISELED "X" ON SOUTHERLY BOLT ON TOWER BASE	677965.19	1613380.65
306	SET BENCH TIE SPIKE IN POWER & TELEPHONE POLE	677953.76	1612645.53
307	SET BENCH TIE SPIKE IN POWER & TELEPHONE POLE	679874.26	1617730.40

CONTROL POINTS

POINT #	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
51	SET MAG NAIL	646.49	679954.02	1617818.56
52	SET MAG NAIL	645.62	679778.93	1617474.55
53	SET MAG NAIL	646.27	679521.72	1616880.25
54	SET MAG NAIL	646.56	6779295.14	1616385.69
55	SET MAG NAIL	648.74	678996.50	1615760.38
56	SET MAG NAIL	649.21	678996.50	1615350.18
57	SET MAG NAIL	650.12	678537.77	1614754.04
58	SET MAG NAIL	650.59	678376.80	1614377.96
59	SET MAG NAIL	651.75	678100.70	1613790.12
60	SET MAG NAIL	652.81	677868.41	1613254.21
61	SET MAG NAIL	648.86	677986.33	1613031.76
62	SET MAG NAIL	651.11	677957.44	1612348.68

VERTICAL DATUM

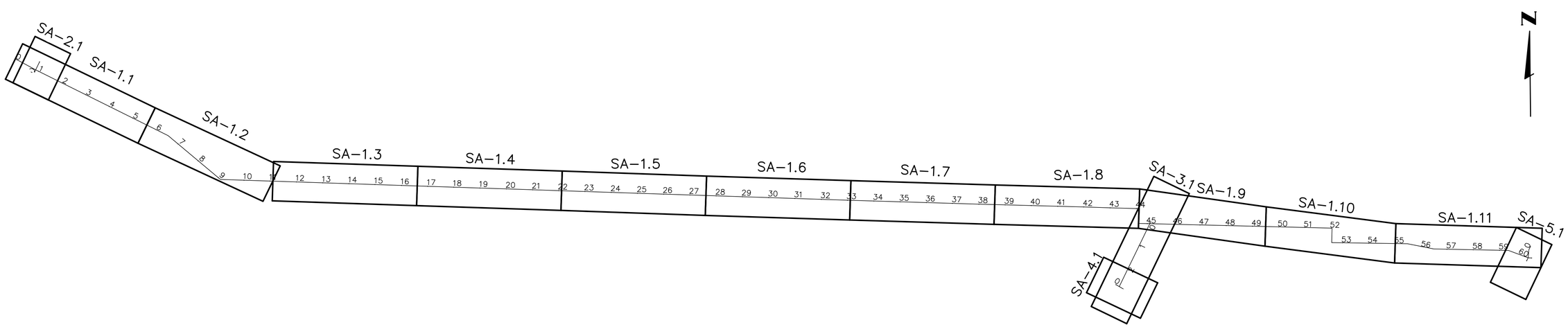
VERTICAL DATUM IS BASED ON '88 NAVD.

GENERAL NOTES:

1. ALL NOTES ON THE DRAWINGS BEAR THE SAME IMPORTANCE. SOME NOTES AND DIMENSIONS ARE BOLD TO AID IN READING THE DRAWINGS IN AREAS OF HIGH GRAPHIC DENSITY.
2. ACCURACY OF EXISTING ELEVATIONS AND DIMENSIONS IS NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY BEFORE CONSTRUCTION.
3. CLEAN WATER CONNECTIONS ARE PROHIBITED FROM BEING CONNECTED TO SANITARY SEWERS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONNECTIONS.
4. PROPOSED 6" LATERAL SHOWN OFFSET IN PLAN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LATERAL FROM MAINLINE TEE OR WYE TO THE RIGHT-OF-WAY (TYPICAL) UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL VERIFY THE ACTIVE SANITARY LATERAL FOR EACH HOME TO THE SANITARY SEWER.
6. PROPERTY LINES ARE LOCATED BY FIELD OBSERVATION WHEN AND WHERE POSSIBLE. PROPERTY LINES SHOWN ARE APPROXIMATE.
7. WHERE LARGE CLUSTERS OF TREES EXIST WITHIN THE PROJECT LIMITS, INDIVIDUAL TREES ARE NOT SHOWN. AREAS OF LARGE CLUSTERS OF TREES ARE DESIGNATED AS "TREE LINES". THE CONTRACTOR IS EXPECTED TO VISIT THE SITE TO IDENTIFY THE ACTUAL QUANTITY OF TREES TO BE REMOVED.

SHEET INDEX

1	G-1	SHEET INDEX, CONTROL POINTS, AND CENTERLINE SCHEMATIC
2	G-2	LEGEND
3	G-3	GENERAL SUMMARY
4	SA-0.1	SANITARY SEWER DETAILS
5	SA-0.2	SANITARY SEWER DETAILS
6	SA-0.3	MISCELLANEOUS SEWER DETAILS
7	SA-0.4	FINZEL ROAD BYPASS PUMPING PLAN
8	SA-0.5	FIELD AVENUE PUMP STATION DEMOLITION SITE PLAN
9	SA-0.6	FIELD AVENUE PUMP STATION DEMOLITION DETAILS
10	SA-0.7	BLUE GRASS FARMS PUMP STATION DEMOLITION SITE PLAN AND DETAILS
11	SA-1.1	LOGAN STREET – 0+00 TO 5+50
12	SA-1.2	LOGAN STREET – 5+50 TO 11+00
13	SA-1.3	WABASH CANNONBALL TRAIL – 11+00 TO 16+50
14	SA-1.4	WABASH CANNONBALL TRAIL – 16+50 TO 22+00
15	SA-1.5	WABASH CANNONBALL TRAIL – 22+00 TO 27+50
16	SA-1.6	WABASH CANNONBALL TRAIL – 27+50 TO 33+00
17	SA-1.7	WABASH CANNONBALL TRAIL – 33+00 TO 38+50
18	SA-1.8	WABASH CANNONBALL TRAIL – 38+50 TO 44+00
19	SA-1.9	WABASH CANNONBALL TRAIL – 44+00 TO 49+50
20	SA-1.10	WABASH CANNONBALL TRAIL – 49+50 TO 55+00
21	SA-1.11	WABASH CANNONBALL TRAIL – 55+00 TO 60+21
22	SA-2.1	FIELD AVENUE – 0+00 TO 0+64
23	SA-3.1	CEMETERY ROAD – 0+00 TO 2+73
24	SA-4.1	SADDLE BRIDGE DRIVE – 0+00 TO 0+55
25	SA-5.1	FINZEL ROAD – 0+00 TO 0+57
26	ST-1.1	ABANDONED RAILROAD DITCH – 45+00 TO 50+50
27	ST-1.2	ABANDONED RAILROAD DITCH – 50+50 TO 52+85
28	PS-1	FINZEL ROAD PUMP STATION REHABILITATION FLOOR PLANS
29	PS-2	FINZEL ROAD PUMP STATION STRUCTURAL SECTIONS AND DETAILS
30	SR-0.1	SURFACE RESTORATION DETAILS
31	SR-1	FIELD AVENUE, LOGAN STREET AND WABASH CANNONBALL TRAIL SURFACE RESTORATION PLANS
32	SR-2	WABASH CANNONBALL TRAIL AND FINZEL ROAD SURFACE RESTORATION PLANS
33	CS-1	WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 44+66 TO 46+16
34	CS-2	WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 46+66 TO 48+16
35	CS-3	WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 48+66 TO 50+16
36	CS-4	WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 50+66 TO 52+85
37	EC-1	ENVIRONMENTAL CONDITIONS AND GENERAL NOTES
38	EC-2	EROSION CONTROL DETAILS
39	TR-1	WABASH CANNONBALL TRAIL BIKE PATH DETOUR PLAN



WABASH CANNONBALL TRAIL

0 100 200 400
SCALE IN FEET

SHEET INDEX
CONTROL POINTS
CENTERLINE SCHEMATIC

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
5			
4			
3			
2			
1			

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JOB NO. 334-7448.002
SCALE AS SHOWN
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020

SHEET NO.
G-1
1 OF 39

TOL-7448002INDEX
9/29/2020 9:52 AM
9/29/2020 9:52 AM

TOPOGRAPHY LEGEND

TOPOGRAPHY LINES:

- CENTER LINE
- FENCE LINE
- PROPERTY LINE
- RIGHT OF WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- SILT FENCE

UTILITY LINES:

- CABLE (UNDERGROUND)*
- COMBINED SEWER
- ELECTRICAL (UNDERGROUND)*
- FIBER OPTIC
- GAS LINE
- HIGH PRESSURE GAS LINE
- OVERHEAD WIRES
- SANITARY SEWER
- SANITARY SEWER FORCE MAIN
- SIGNAL (UNDERGROUND)*
- GUARDRAIL
- STORM SEWER
- TELEPHONE (UNDERGROUND)*
- WATER LINE
- LARGE DIAMETER LINES (ANY TYPE)
- UTILITY LINE TO BE REMOVED***
- UTILITY LINE TO BE ABANDONED
- 8" SANITARY SEWER — NEW UTILITY LINE
- 54" SANITARY SEWER — LARGE DIAMETER NEW UTILITY LINE
- CIPP

ALPHA DESIGNATION REFERS TO UTILITY TYPE, NUMERICAL DESIGNATION REFERS TO PIPE NOMINAL DIAMETER. LINES WITH NO NUMERICAL DESIGNATION ARE OF UNKNOWN SIZE.

* AERIAL LINES, IF SHOWN, ARE DESIGNATED WITH LOWER CASE LETTERS
** FOR ELLIPTICAL SEWERS, THE VERTICAL DIMENSION (RISE) IS CALLED OUT FIRST FOLLOWED BY THE HORIZONTAL DIMENSION (SPAN). EXAMPLE: 45X35 (RISE X SPAN) THE VERTICAL DIMENSION IS 45", THE HORIZONTAL DIMENSION IS 35".
*** INCLUDES THE REMOVAL OF ALL SPECIFIED STRUCTURES AND APPURTENANCES.

EXISTING TOPOGRAPHIC SYMBOLS & ABBREVIATIONS

- TELEPHONE POLE
- LIGHT POLE
- POWER POLE
- POWER POLE AND TELEPHONE POLE
- TELEPHONE POLE AND LIGHT POLE
- LIGHT, POWER POLE AND TELEPHONE POLE
- Hold — PP — POLE TO BE TEMPORARILY SUPPORTED AND PROTECTED BY CONTRACTOR
- Boring B-2 — SOIL BORING
- Boring PC-2 — PAVEMENT BORING
- 72 — CONTROL POINT
- 1031 — BENCHMARK
- TC – TOP OF CURB ELEVATION; G – GUTTER ELEVATION
- 773.31 — SPOT ELEVATION *POINT OF ELEVATION IS DECIMAL
- 602.35 — TOPO GRADE SHOT (THE . OF THE NUMBER SIGNIFIES THE LOCATION OF THE SHOT)
- IP — IRON PIN (OR LABELED POST, MARKER ETC.)
- CI — CURB INLET
- EP — EDGE OF PAVEMENT
- INV — INVERT ELEVATION
- TW — TOP OF WALK
- WM — WATER METER
- W — WATER MANHOLE
- WV — WATER VALVE
- W — WATER LINE MARKER
- M — METER PIT
- WELL — WATER WELL
- WM — WATER METER PIT
- W — WATER VENT
- WATER MAIN PLUG
- FIRE HYDRANT OR YARD HYDRANT
- SA — SANITARY MANHOLE
- SA — SANITARY VENT
- SANITARY VALVE
- SA — SANITARY MARKER
- FORCE MAIN FLUSHING CONNECTION
- CO — CLEAN OUT
- ST — STORM MANHOLE
- CB — CATCH BASIN
- SEPTIC TANK
- S — STORM LINE MARKER
- UM — UNKNOWN MANHOLE
- UNKNOWN PEDESTAL
- UV — UNKNOWN VALVE
- UW — UNKNOWN WELL
- UB — UNKNOWN BOX
- UNKNOWN POLE
- IP — INLET PROTECTION
- SHRUB
- CONIFEROUS TREE
- DECIDUOUS TREE
- STUMP
- BOLT

- GAS VALVE
- GM — GAS METER
- GV — GAS LINE VENT
- G — GAS LINE MARKER
- G — GAS MANHOLE
- GW — GAS WELL
- E — ELECTRIC MANHOLE
- EM — ELECTRIC METER
- E — ELECTRIC TRANSFORMER
- E — ELECTRIC PULLBOX
- GUY WIRE
- TP — TELEPHONE PEDESTAL
- T — TELEPHONE MANHOLE
- TEL — TELEPHONE LINE MARKER
- TB — TELEPHONE BOOTH
- LP — LIGHT POLE BOX
- SIGN
- MB — MAILBOX
- POST
- BOLLARD
- SATELLITE DISH
- FLAG POLE
- YARD LIGHT
- TOWER
- M — MONUMENT BOX
- RAIL ROAD GATE
- RAIL ROAD CROSSING SIGNAL
- RAIL ROAD SPIKE
- RAIL ROAD SPIKE SET
- RAIL ROAD MILE POST
- CONCRETE MONUMENT
- EXISTING BUILDING
- AC — AIR CONDITIONING UNIT
- SUPPORT POLE (UTILITY)
- SIGNAL
- TV — CABLE TV
- CONTROLLER POLE MOUNTED
- DRILL HOLE
- DRAIN TILE
- DRY WELL
- P — POWER LINE MARKER
- ELECTRIC VAULT
- AERIAL CONTROL POINT
- PMP — PETROLEUM PUMP
- G — GAS TEST STATION
- TACKED HUB
- MW — MONITORING WELL
- OT — OIL TANK
- PB — NEWS PAPER BOX
- PM — PARKING METER
- PAY PHONE
- HEAD STONE
- SPRINKLER HEAD
- T-BAR
- TM — TRAFFIC MANHOLE

PROPOSED WORK

- GV/VB — GATE VALVE AND BOX
- BV/VB — BUTTERFLY VALVE AND BOX
- PV/VB — PLUG VALVE AND BOX
- IV/V — INSERTING VALVE AND BOX
- TSV — TAPPING SLEEVE VALVE AND BOX
- ABANDON VALVE MANHOLE
- ABANDON VALVE BOX
- MANHOLE TO BE ABANDONED
- FH A — FIRE HYDRANT ASSEMBLY, TYPE A
- FH B — FIRE HYDRANT ASSEMBLY, TYPE B
- FIRE HYDRANT TO BE REMOVED
- EXISTING WATER MAIN TO BE PLUGGED
- WATER MAIN PLUG WITH BLOWOFF
- T/A — WATER MAIN TERMINATION AND ABANDONMENT
- M — METER PIT
- PP — POLE TO BE TEMPORARILY SUPPORTED AND PROTECTED BY CONTRACTOR
- CO — CLEAN OUT
- TREE TO BE REMOVED
- STUMP TO BE REMOVED
- SANITARY MANHOLE
- FORCE MAIN FLUSHING CONNECTION

- GV — GATE VALVE AND MANHOLE
- BV — BUTTERFLY VALVE AND MANHOLE
- PV — PLUG VALVE AND MANHOLE
- AR — AIR RELEASE VALVE AND MANHOLE
- CV — CHECK VALVE AND MANHOLE
- IV — INSERTING VALVE AND MANHOLE
- TSV — TAPPING SLEEVE VALVE AND MANHOLE

- TEE
- CROSS
- REDUCER
- BEND (45°)

STORM WATER POLLUTION PREVENTION

- RCE — ROADWAY CONSTRUCTION ENTRANCE
- IP — INLET PROTECTION
- SILT FENCE

LEGEND

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY

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JOB NO. 334-7448.002
SCALE NONE
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020
SHEET NO.
G-2
2 OF 39

TQL-7448002LEGEND
9/25/2020 9:53 AM
9/25/2020 9:52 AM

Item No.	Plan Quantity	Contigency Quantity	Grand Total	Unit	Description	SA-1.1	SA-1.2	SA-1.3	SA-1.4	SA-1.5	SA-1.6	SA-1.7	SA-1.8	SA-1.9	SA-1.10	SA-1.11	SA-2.1	SA-3.1	SA-4.1	SA-5.1	ST-1.1	ST-1.2	SR-1	SR-2
1	1	0	1	LS	Mobilization and Demobilization	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2a	2	1	3	EA	6-inch Lateral Sewer Connection, Type B	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2b	51	5	56	LF	8-inch Sanitary Sewer, Type B	0	39	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0
2c	10	5	15	LF	10-inch Sanitary Sewer, Type B	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
2d	93	5	98	LF	12-inch Sanitary Sewer, Type B	13	0	0	0	0	0	0	0	0	0	0	68	0	12	0	0	0	0	0
2e	43	0	43	LF	14-inch Sanitary Sewer, Type B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0
2f	25	5	30	LF	15-inch Sanitary Sewer, Type B	0	0	0	0	0	0	0	0	0	0	0	12	0	0	13	0	0	0	0
2g	292	0	292	LF	18-inch Sanitary Sewer, Type B	0	0	0	0	0	0	0	0	0	0	0	0	266	26	0	0	0	0	0
2h	736	5	741	LF	24-inch Sanitary Sewer, Type B (Less than or equal to 20-feet Deep)	537	199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2i	902	5	907	LF	24-inch Sanitary Sewer, Type B (Greater than 20-feet Deep)	0	0	0	0	0	0	0	0	550	272	80	0	0	0	0	0	0	0	0
2j	3855	10	3865	LF	24-inch Sanitary Sewer, Type C (Less than or equal to 20-feet Deep)	0	351	550	550	550	550	550	511	0	25	218	0	0	0	0	0	0	0	0
2k	226	0	226	LF	24-inch Sanitary Sewer, Type C (Greater than 20-feet Deep)	0	0	0	0	0	0	0	39	0	10	177	0	0	0	0	0	0	0	0
2l	289	0	289	LF	24-inch DIP Sanitary Sewer in 42-inch Bored Casing	0	0	0	0	0	0	0	0	0	243	46	0	0	0	0	0	0	0	0
2m	2	0	2	EA	8-inch Sanitary Sewer Connection to Existing	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2n	1	0	1	EA	10-inch Sanitary Sewer Connection to Existing	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2o	3	0	3	EA	12-inch Sanitary Sewer Connection to Existing	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
2p	3	0	3	EA	15-inch Sanitary Sewer Connection to Existing	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0
2q	1	0	1	EA	24-inch Sanitary Sewer Connection to Existing	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2r	0	50	50	LF	Sewer Pipe Repair, Less Than 15-inches in Diameter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2s	22	38	60	LF	8-inch Force Main Removed, Type B	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2t	7	0	7	LF	12-inch Sanitary Sewer Removed, Type B	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2u	4	0	4	EA	4-inch Plug	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0
2v	13	0	13	EA	8-inch Plug	1	4	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0
2w	6	0	6	EA	12-inch Plug	1	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0
2x	1	0	1	EA	15-inch Plug	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2y	659	0	659	LF	Sanitary Sewer Abandoned	556	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2z	28	5	33	LF	8-inch Storm Sewer, Type C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0
2aa	65	0	65	LF	18-inch Storm Sewer, Type C	0	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	0	0	0
2ab	670	10	680	LF	36-inch Storm Sewer, Type C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	539	131	0	0
2ac	21	4	25	LF	36-inch Culvert Repair, Type B	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0
3a	1	0	1	EA	Tapping Sleeve, Valve and Manhole for Bypass Connection to Force Main	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	1	0	1	EA	14-inch Inserting Valve and Box	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	4	0	4	EA	8-inch Valve and Box Abandoned	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
4	2	0	2	EA	Nyloplast Catch Basin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
5a	55	5	60	VLF	Sanitary Sewer Manhole, Type I	0	0	0	0	0	0	0	0	0	0	0	17	20	18	0	0	0	0	0
5b	248	2	250	VLF	Sanitary Sewer Manhole, Type II	36	17	18	18	0	18	0	19	69	44	9	0	0	0	0	0	0	0	0
5c	130	0	130	VLF	Sanitary Sewer Manhole, Type II with Drop	19	17	0	17	18	0	37	0	22	0	0	0	0	0	0	0	0	0	0
5d	23	0	23	VLF	Sanitary Sewer Manhole, Type III	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0
5e	7	0	7	VLF	Storm Sewer Manhole, Type III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0
5f	3	0	3	EA	Manhole Abandoned	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5g	4	0	4	EA	Manhole Removed	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
6a	2315	235	2550	SY	ODOT Item 202 Pavement and Base Removed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1323	992
6b	76	14	90	SY	ODOT Item 202 Driveway and Sidewalk Pavement Removed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	55
6c	612	68	680	SY	ODOT Item 254 Pavement Planing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	612	0
7a	785	85	870	CY	ODOT Item 304 Aggregate Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	445	340
7b	114	16	130	CY	ODOT Item 301 Asphalt Concrete Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	3
7c	286	34	320	GAL	ODOT Item 407 Tack Coat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187	99
7d	116	14	130	CY	ODOT Item 441 Asphalt Concrete Intermediate Course, Type 2 (448)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	61
7e	114	16	130	CY	ODOT Item 441 Asphalt Concrete Surface Course, Type 1 (448)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	34
7f	2391	239	2630	SY	ODOT Item 204 Subgrade Compaction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1344	1047
7g	2391	239	2630	SY	Temporary Pavement Repair	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1344	1047
8a	309	11	320	SF	4-inch Concrete Sidewalk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190	119
8b	122	8	130	SF	6-inch and 8-inch Concrete Sidewalk and Curb Ramp with Detectable Warning Surface	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	90
8c	41	9	50	SY	8-inch Concrete Driveway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
9a	702	108	810	LF	Curb or Curb and Gutter Removed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	702	0
9b	702	108	810	LF	Concrete Curb and Gutter, Type 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	702	0
10	1	0	1	LS	Maintenance of Traffic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1	0	1	LS	Storm Water Pollution Prevention	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	1	0	1	LS	Clearing and Grubbing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	6522	0	6522	LF	Post-Construction Sewer Televising 8-inch Through 24-inch Sewer	550	589	550	550	550	550	550	550	550	550	521	90	266	50	56	0	0	0	0
14a	1	0	1	LS	Blue Grass Farms Pump Station Demolition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14b	1	0	1	LS	Field Avenue Pump Station Demolition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	1	0	1	EA	Remove and Replace Pedestrian Signal	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16	1	0	1	LS	Pavement Markings for Cemetery Road	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1	0	1	LS	Finzel Road Pump Station Rehabilitation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	5	1	6	WEEK	Bypass Pumping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19a	0	40	40	LF	Water Main Repair, Less Than or Equal to 12-inch Diameter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19b	0	2	2	EA	Water Service Repair	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	1	1	LS	Topsoil Stripped, Stockpiled and Placed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	88	2	90	CY	Dump Rock Fill, Type D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
22	1976	14	1990	CY	Ditch Enclosure Fill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1398	578	0	0
23	0	1	1	LS	Video Recording of the Zone of Influence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

QUANTITY NOTES:

1. QUANTITIES SHOWN IN THE GENERAL SUMMARY ARE REFERENCED TO THE SEWER LINE PLAN AND PROFILE SHEETS.
2. BIDDERS/CONTRACTORS SHALL CALL DISCREPANCIES TO THE ENGINEERS ATTENTION AS SOON AS THEY ARE DISCOVERED.
3. BIDDER ACKNOWLEDGES THAT QUANTITIES ARE NOT GUARANTEED AND FINAL PAYMENT WILL BE BASED ON ACTUAL QUANTITIES DETERMINED AS PROVIDED IN THE CONTRACT DOCUMENTS.

GENERAL SUMMARY

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
5			
4			
3			
2			
1			

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JOB NO. 334-7448.002

SCALE NONE

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

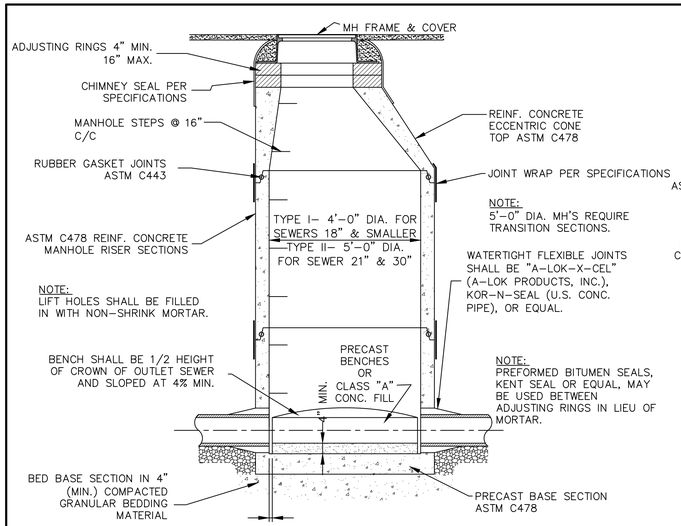
STATUS: ISSUED FOR BID

DATE: SEPTEMBER 2020

SHEET NO.

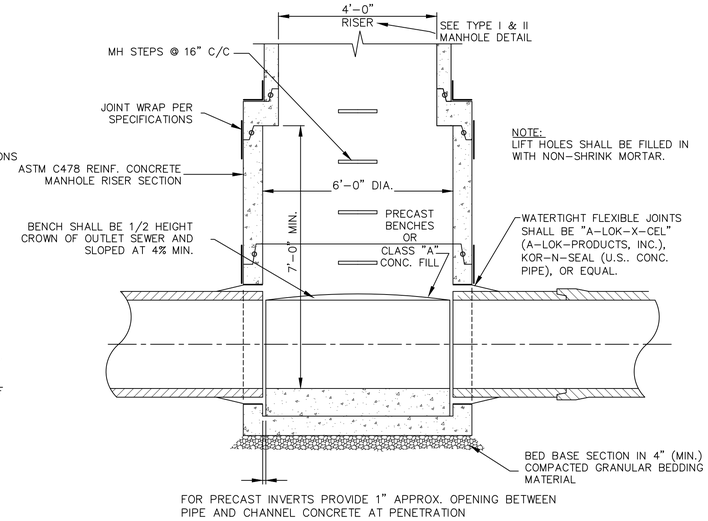
G-3

TOL-7448002GENSUM
DGN:TOL7448002GENSUM
9/25/2020 9:52 AM
9/25/2020 9:52 AM



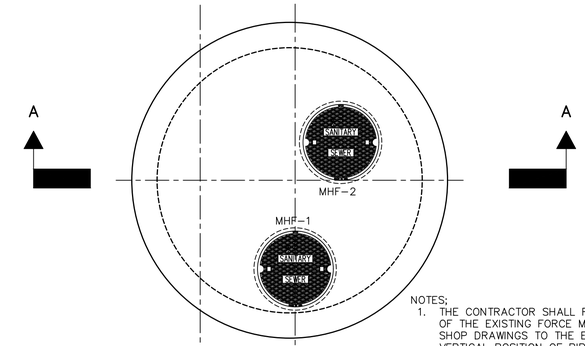
TYPE I & II MANHOLES

½"= 1'-0"



TYPE III MANHOLES

½"= 1'-0"

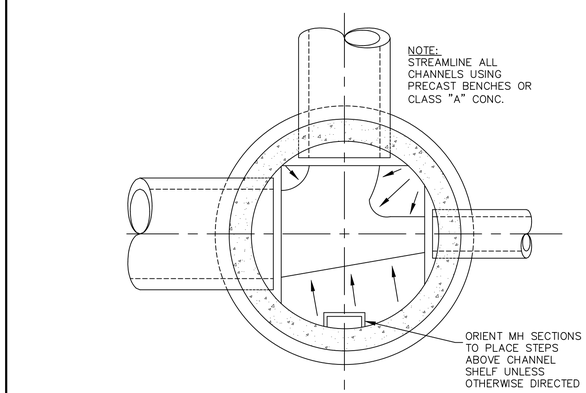


TOP PLAN

½"=1'-0"

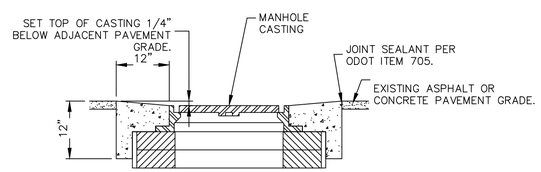
NOTES;

1. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF THE EXISTING FORCE MAIN PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER TO MODIFY THE VERTICAL POSITION OF PIPE CENTERLINES.
2. PIPE PENETRATIONS SHALL BE LOCATED AT THE PRECAST WALL JOINT TO PERMIT DOGHOUSE STYLE CONSTRUCTION.
3. BASE SLAB SECTIONS SHALL BE INTEGRAL WITH WALL SECTIONS WITH WALLS EXTENDED TO A HEIGHT COORDINATED WITH CONTRACTOR'S LIFTING CAPABILITIES.
4. THE CONTRACTOR SHALL PROPERLY SUPPORT THE FORCE MAIN DURING THE WORK.
5. THE FORCE MAIN SHALL REMAIN IN SERVICE DURING THE WORK.
6. SEE SPECIFICATIONS FOR MANHOLE FRAME AND LID MODEL NUMBER.



SECTIONAL PLAN

½"=1'-0"

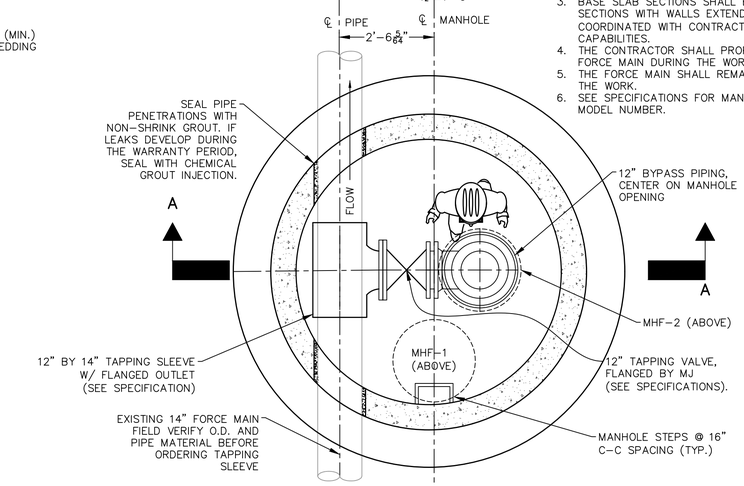


CONCRETE COLLAR DETAIL

NTS

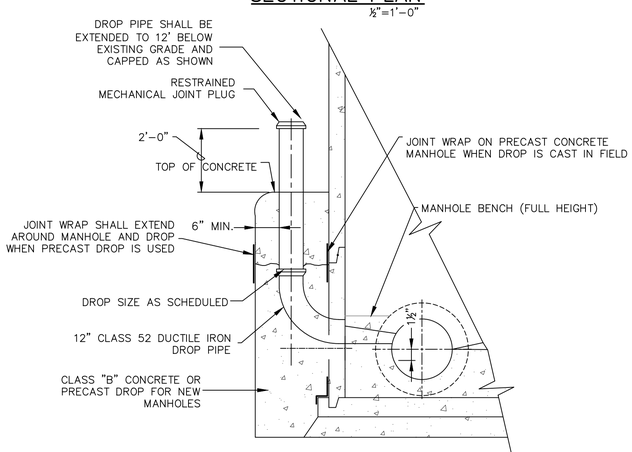
NOTES:

1. THE CONCRETE COLLAR SHALL BE CONSTRUCTED USING MEDIUM SET (MS) CONCRETE OR APPROVED ALTERNATIVE MIX.
2. THE CONCRETE COLLAR SHALL NOT BE OPENED TO TRAFFIC UNTIL THE CONCRETE HAS CURED FOR 24-HOURS.
3. CONCRETE COLLARS SHALL BE PROVIDED FOR ALL MANHOLES LOCATED IN PAVED AREAS.



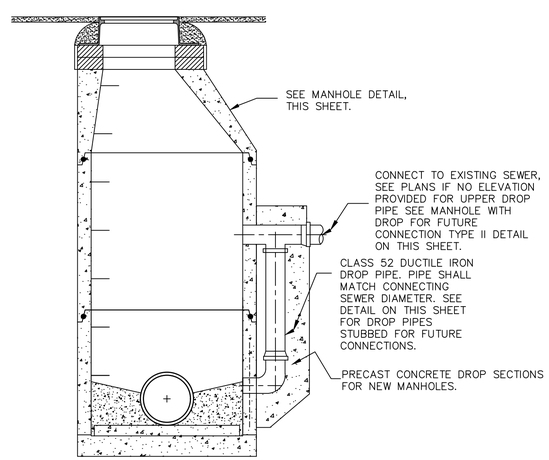
PLAN AT ELEVATION 639.00

½"=1'-0"



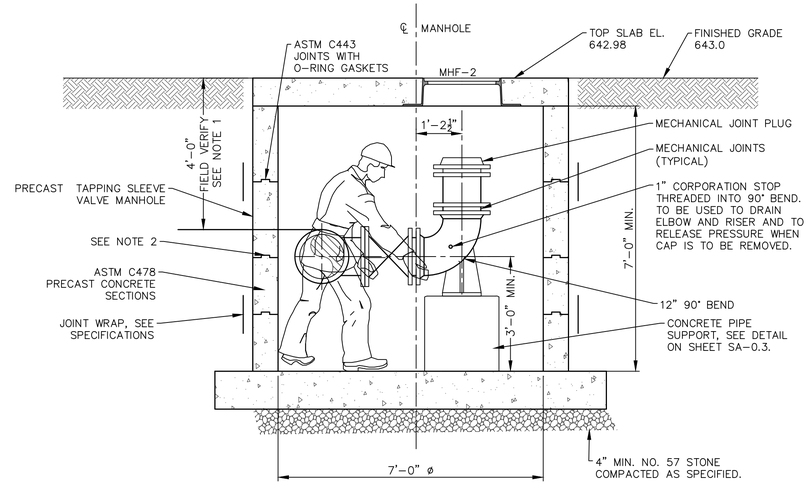
MANHOLE WITH DROP FOR FUTURE CONNECTION TYPE II

NTS



OUTSIDE DROP MANHOLE DETAIL

NTS



SECTION A-A
FORCE MAIN BYPASS PUMPING MANHOLE

½"=1'-0"

SANITARY SEWER DETAILS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
0	9/25/20	ISSUED FOR BID	

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JOB NO.	334-7448.002
SCALE	AS NOTED

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISUED FOR BID
DATE: SEPTEMBER 2020

SHEET NO.
SA-0.1

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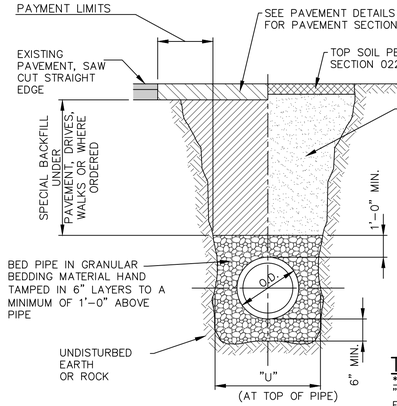
9/25/2020 9:53 AM
9/25/2020 9:53 AM



NOTE:
UNDER EXISTING SEWERS, WATER LINES, GAS LINES, TELEPHONE CABLE AND ELECTRICAL CONDUITS, BACKFILL WITH GRANULAR BEDDING MATERIAL TO THE CENTERLINE OF THE EXISTING UTILITY LINES.

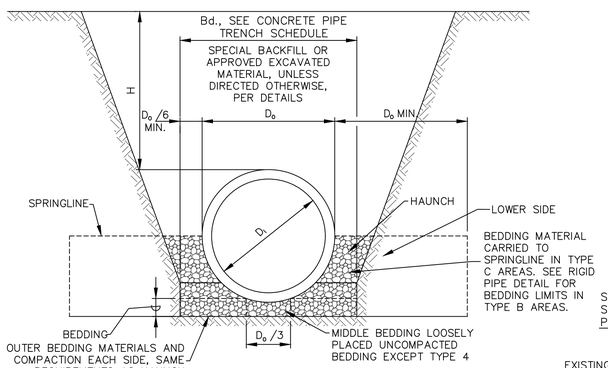
PIPE OD	"U"*
0" TO 14"	OD+16"
14.1" TO 28"	OD+20"
28.1" TO 48"	OD+24"
48.1" TO 70"	OD+30"

TRENCH SCHEDULE

* NOTE:
"U" IS THE MINIMUM WIDTH FOR FLEXIBLE PIPES IN ACCORDANCE WITH ASTM D-2321 AND D-2774.

TRENCH DETAIL FOR FLEXIBLE PIPE

NTS

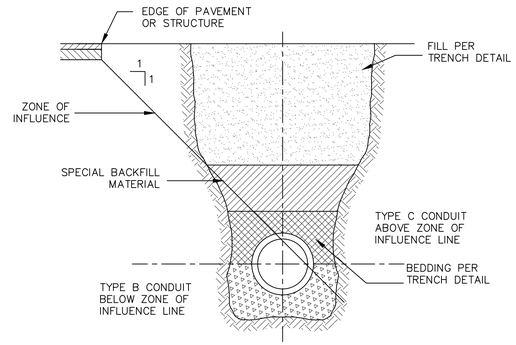


NOTE:
1. PIPE DESIGN CALCULATIONS BASED UPON A TYPE 3 STANDARD INSTALLATION PER CONCRETE PIPE DESIGN MANUAL, AMERICAN CONCRETE PIPE ASSOCIATION, 19TH EDITION 2007
2. SEE RIGID PIPE DETAIL ON THIS SHEET FOR PAVEMENT REPAIR.

TRENCH DETAIL FOR CONCRETE PIPE

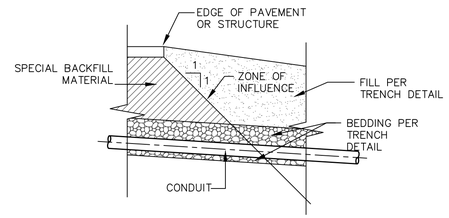
SEE CONCRETE PIPE DESIGN MANUAL NTS

CONCRETE PIPE TRENCH SCHEDULE	
MAXIMUM TRENCH WIDTH (Bd) (FEET)	
HEIGHT OF BACKFILL (H) ABOVE CROWN OF PIPE	24"
5	4.2
6	4.3
7	4.4
8	4.5
9	4.6
10	4.7
11	4.8
12	4.8
13	4.9
14	5.0
15	5.1
16	5.2
17	5.3
18	5.3
19	5.4
20	5.5
21	5.6
22	5.7
23	5.7
24	5.8
25	5.9
TABLE IS FOR ASTM C76 PIPE INSTALLED IN CLAY SOILS WITH Ku'0.13 IN A TYPE 3 INSTALLATION	



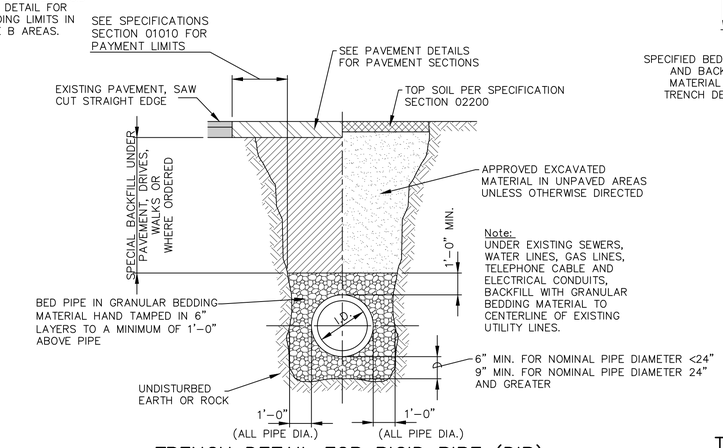
PARALLEL ZONE OF INFLUENCE

NTS



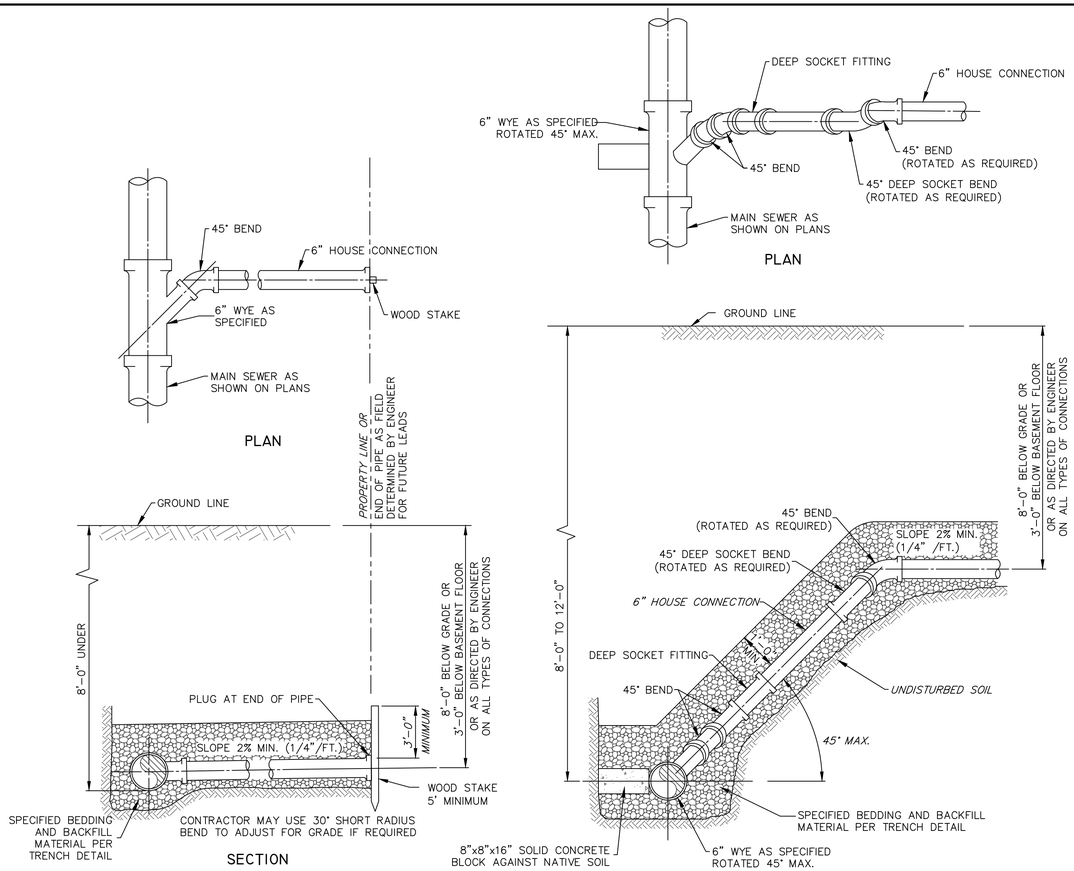
TRANSVERSE ZONE OF INFLUENCE

NTS



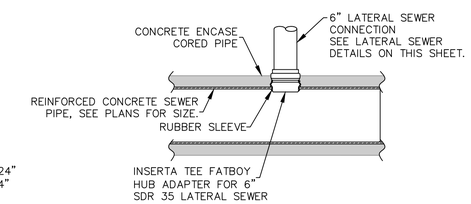
TRENCH DETAIL FOR RIGID PIPE (DIP)

NTS



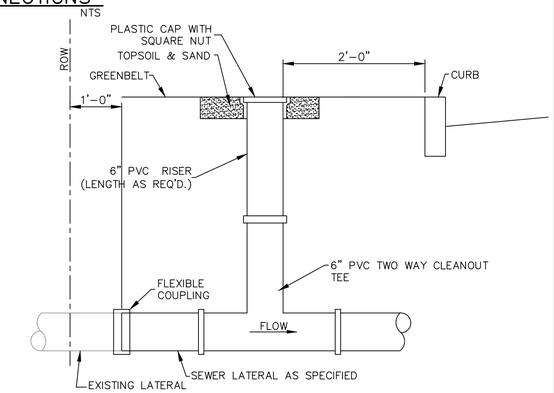
HOUSE CONNECTIONS

NTS



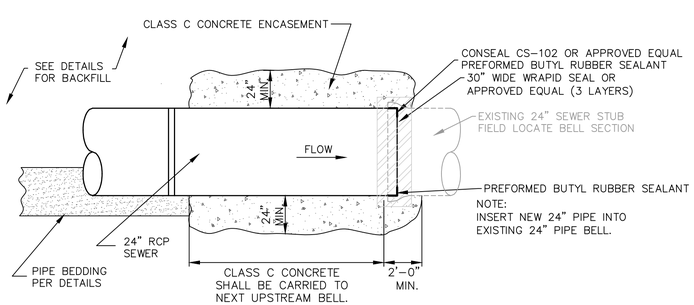
SANITARY LATERAL CONNECTIONS TO REINFORCED CONCRETE PIPE SEWERS

NTS



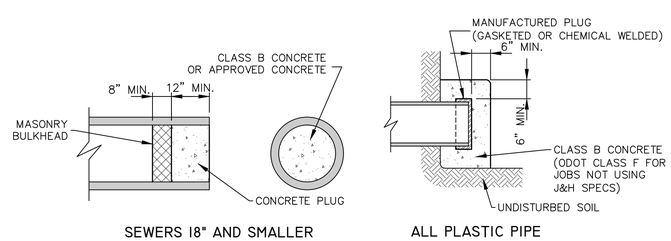
SANITARY SEWER LATERAL CLEANOUT

NTS



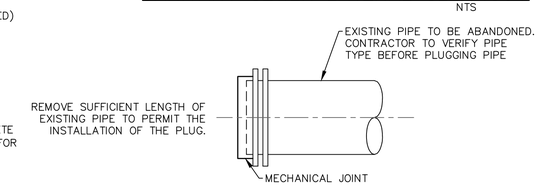
SANITARY SEWER CONNECTION DETAIL 24" RCP

NTS



STANDARD SEWER PLUGS

(FOR SEWERS TO BE ABANDONED) ½"=1'-0"



NOTE:
1. PIPE PLUGS TO BE PROVIDED IN LOCATIONS MARKED "CUT AND CAP"

DUCTILE OR CAST IRON PLUG PIPE DETAIL

NTS

SANITARY SEWER DETAILS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY

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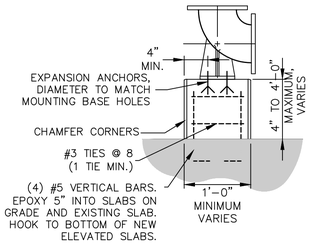
JOB NO. 334-7448.002
SCALE AS NOTED
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020
SHEET NO.
SA-0.2
5 OF 39

TOL-7AA8602SADETAILS
01-27-2020 9:53 AM
9/25/2020 9:53 AM

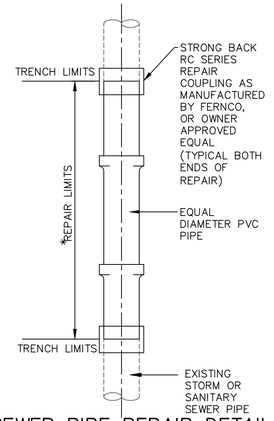


TYPE 3

NOTE:
1. FOR HEIGHTS LESS THAN 4" USE UNREINFORCED NON-SHRINK GROUT AND EMBED ANCHORS THE MINIMUM DEPTH TO SLAB.
2. FOR EXISTING ELEVATED SLABS LOCATE EXISTING BARS WITH REBAR FINDER. LOCATE SUPPORTS SO DOWELS MISS EXISTING BARS.

CONCRETE PIPE SUPPORT

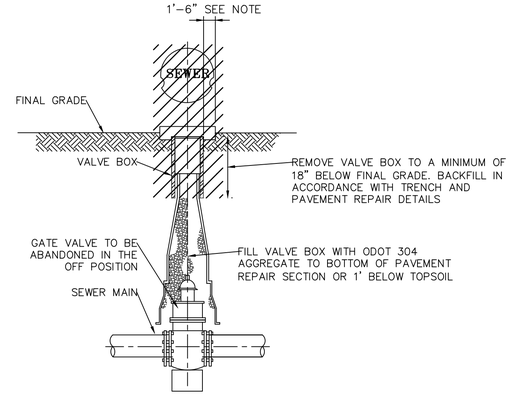
NTS



SEWER PIPE REPAIR DETAIL

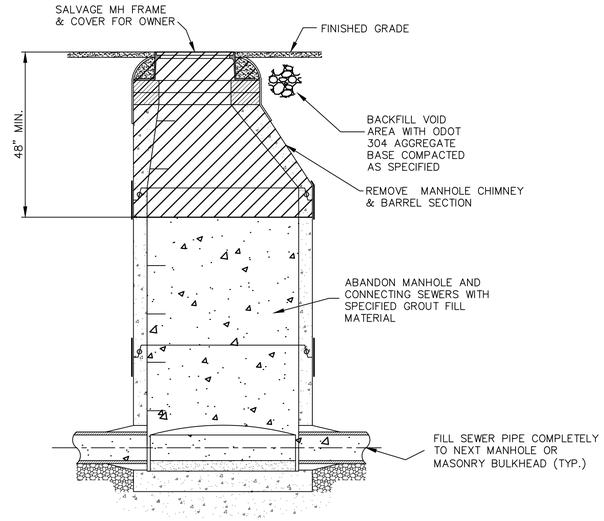
NTS

*THE REPAIR LIMITS MAY BE EXTENDED TO THE NEXT PIPE JOINT AS DIRECTED BY THE ENGINEER.



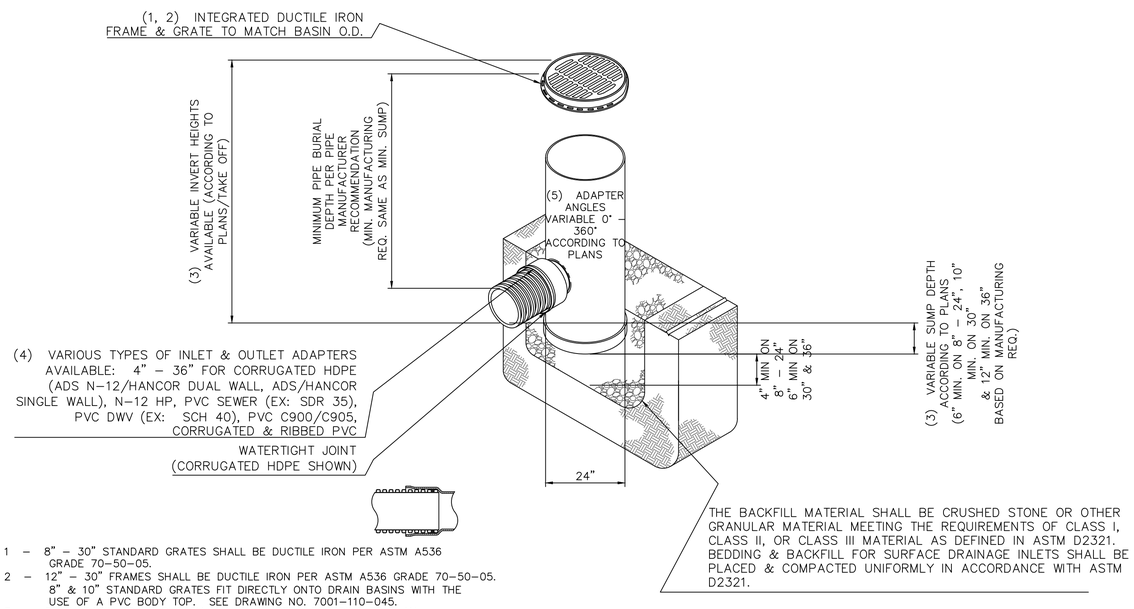
VALVE ABANDONMENT DETAIL

NTS



SEWER MAIN ABANDONMENT DETAIL

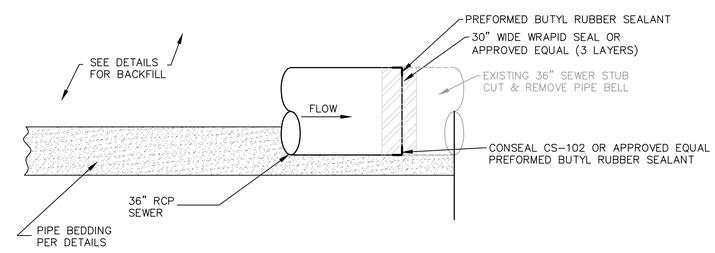
½"= 1'-0"



1 – 8" – 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 – 12" – 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 – DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 – DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" – 36").
5 – ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

NYLOPLAST DRAIN BASIN WITH STANDARD GRATE

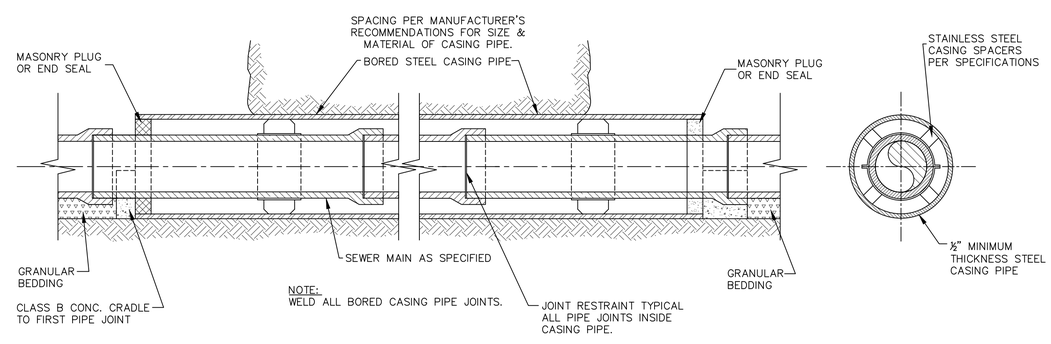
NTS



STORM SEWER CONNECTION DETAIL 36" RCP

NTS

NOTE: RCP REQUIRED FOR ALL TYPE B 36" STORM SEWER.



BORED STEEL CASING PIPE WITH CARRIER PIPE DETAIL

NTS

MISCELLANEOUS SEWER DETAILS
VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
5			
4			
3			
2			
1			

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JOB NO. 334-7448.002
SCALE AS NOTED
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

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SHEET NO.
SA-0.3
6 OF 39

TOL-7448002SADETAILS
9/25/2020 9:53 AM
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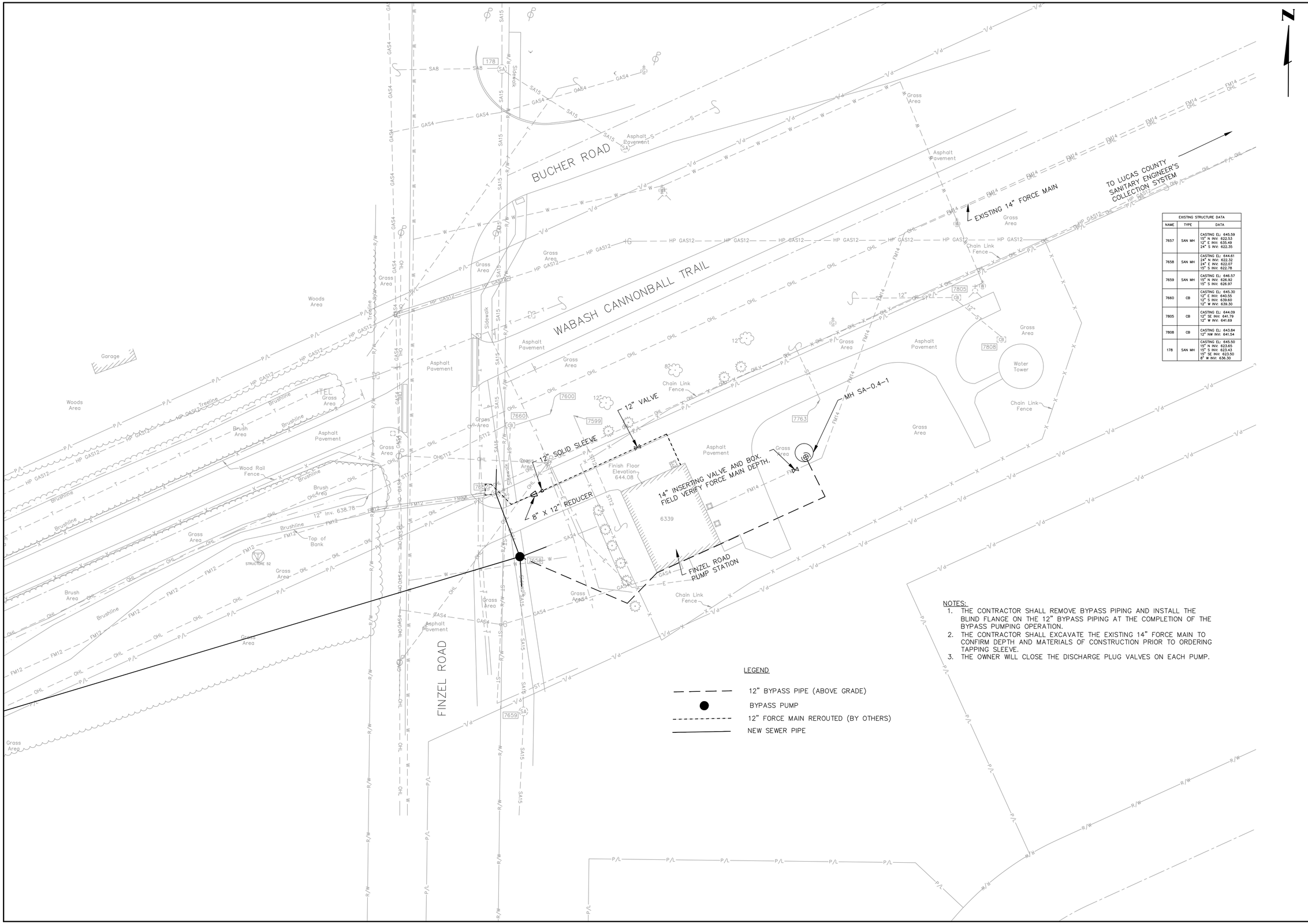

EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
7657	SAN MH	CASTING EL: 645.59 15" N INV: 622.53 12" E INV: 635.49 24" S INV: 622.35
7658	SAN MH	CASTING EL: 644.61 24" N INV: 622.32 24" E INV: 622.07 15" S INV: 622.78
7659	SAN MH	CASTING EL: 646.57 15" N INV: 626.92 15" S INV: 626.97
7660	CB	CASTING EL: 645.30 12" E INV: 640.55 12" S INV: 639.60 12" W INV: 639.30
7805	CB	CASTING EL: 644.09 12" SE INV: 641.79 12" W INV: 641.69
7808	CB	CASTING EL: 643.84 12" NW INV: 641.54
178	SAN MH	CASTING EL: 645.50 15" N INV: 623.65 15" S INV: 623.43 15" SE INV: 623.50 8" W INV: 636.30

NOTES:

1. THE CONTRACTOR SHALL REMOVE BYPASS PIPING AND INSTALL THE BLIND FLANGE ON THE 12" BYPASS PIPING AT THE COMPLETION OF THE BYPASS PUMPING OPERATION.
2. THE CONTRACTOR SHALL EXCAVATE THE EXISTING 14" FORCE MAIN TO CONFIRM DEPTH AND MATERIALS OF CONSTRUCTION PRIOR TO ORDERING TAPPING SLEEVE.
3. THE OWNER WILL CLOSE THE DISCHARGE PLUG VALVES ON EACH PUMP.

LEGEND

- 12" BYPASS PIPE (ABOVE GRADE)
- BYPASS PUMP
- 12" FORCE MAIN REROUTED (BY OTHERS)
- NEW SEWER PIPE

FINZEL ROAD BYPASS PUMPING PLAN

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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SCALE 1" = 20'

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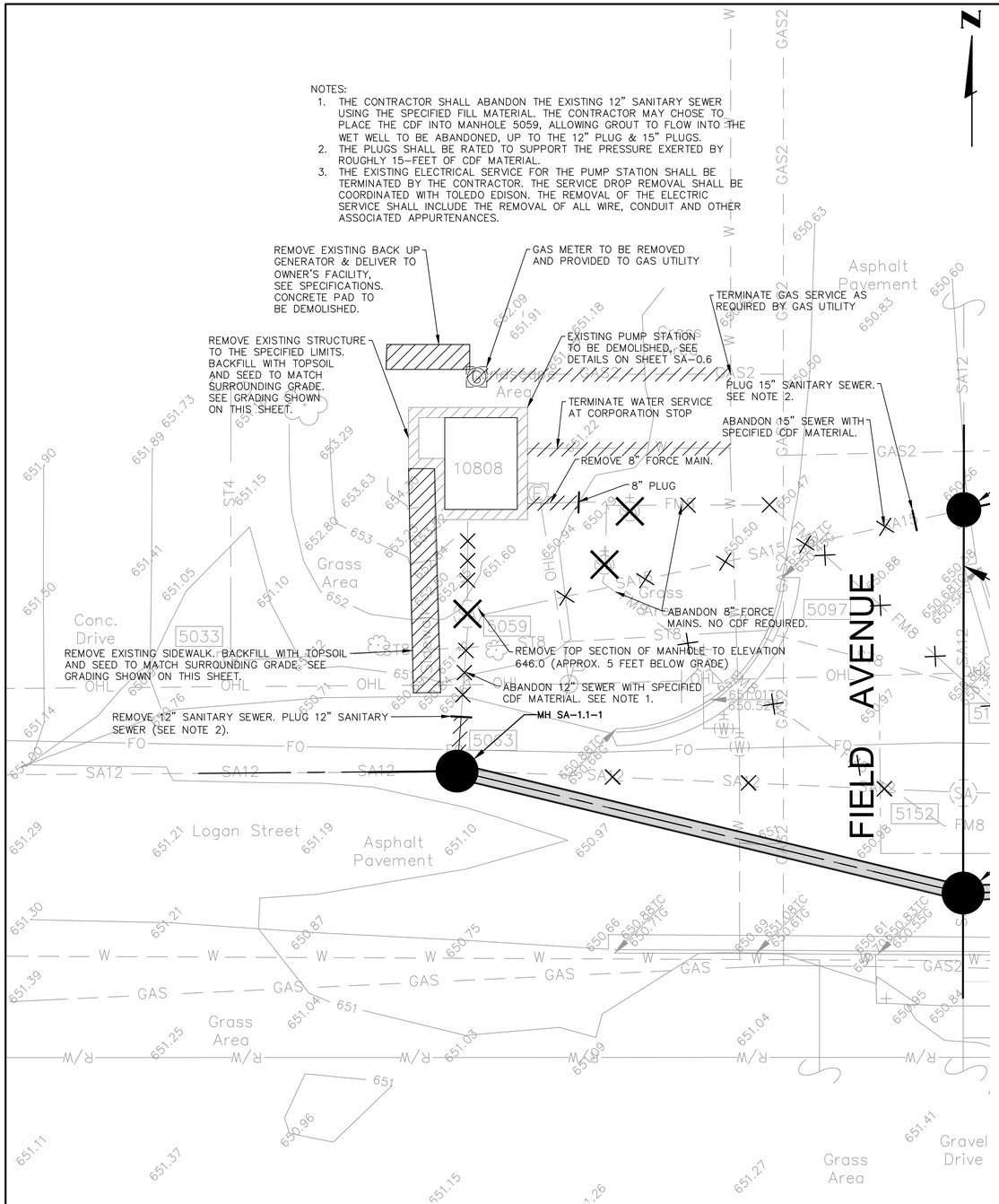
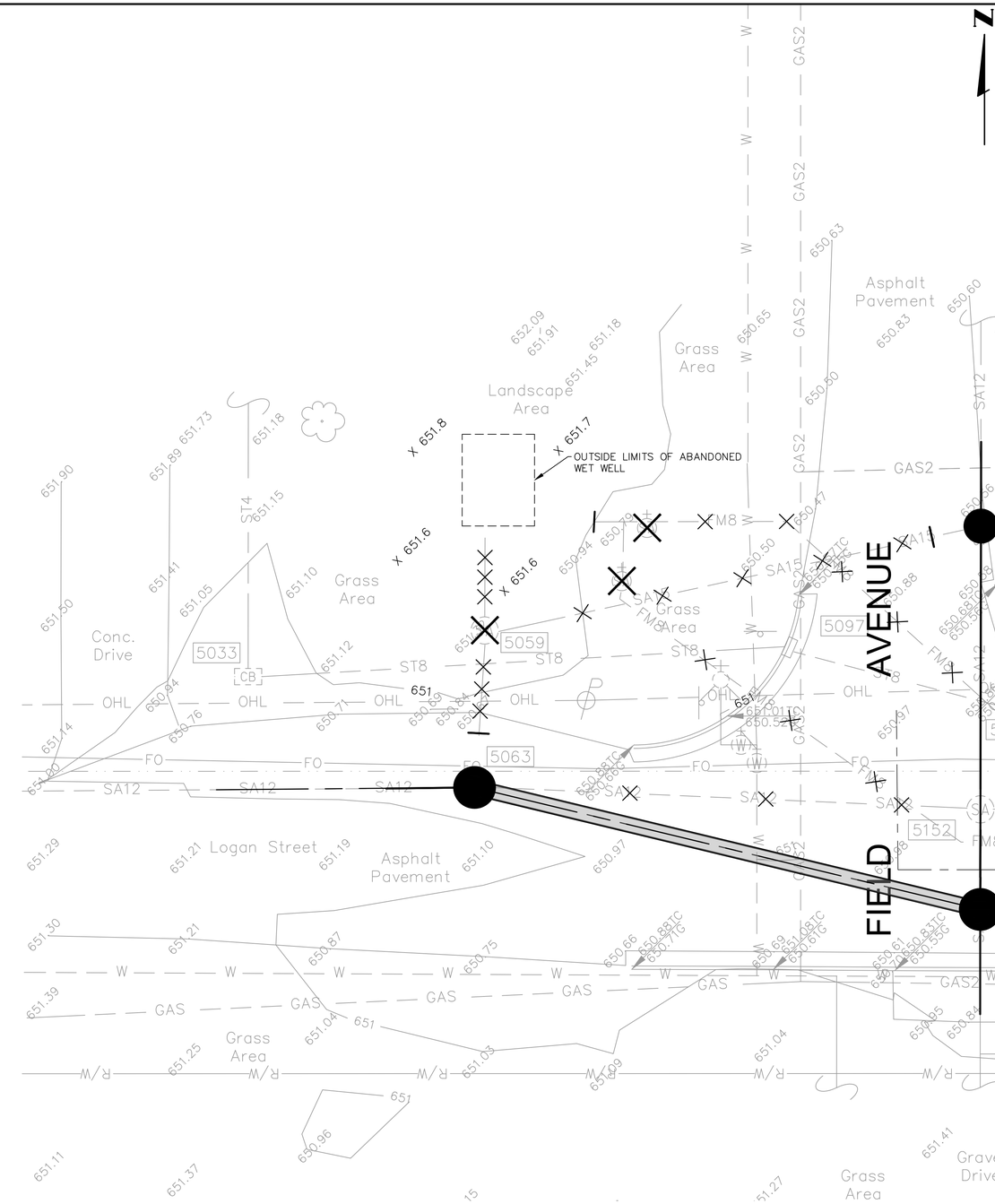
TOL-7448002BYPASS
09/25/2020 9:53 AM
9/25/2020 9:53 AM

NOTES:

1. THE CONTRACTOR SHALL ABANDON THE EXISTING 12" SANITARY SEWER USING THE SPECIFIED FILL MATERIAL. THE CONTRACTOR MAY CHOSE TO PLACE THE CDF INTO MANHOLE 5059, ALLOWING GROUT TO FLOW INTO THE WET WELL TO BE ABANDONED, UP TO THE 12" PLUG & 15" PLUGS.
2. THE PLUGS SHALL BE RATED TO SUPPORT THE PRESSURE EXERTED BY ROUGHLY 15-FEET OF CDF MATERIAL.
3. THE EXISTING ELECTRICAL SERVICE FOR THE PUMP STATION SHALL BE TERMINATED BY THE CONTRACTOR. THE SERVICE DROP REMOVAL SHALL BE COORDINATED WITH TOLEDO EDISON. THE REMOVAL OF THE ELECTRIC SERVICE SHALL INCLUDE THE REMOVAL OF ALL WIRE, CONDUIT AND OTHER ASSOCIATED APPURTENANCES.



PRE-DEMOLITION SITE PLAN



POST-DEMOLITION SITE PLAN

FIELD AVENUE PUMP STATION DEMOLITION SITE PLAN

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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SCALE 1" = 10'

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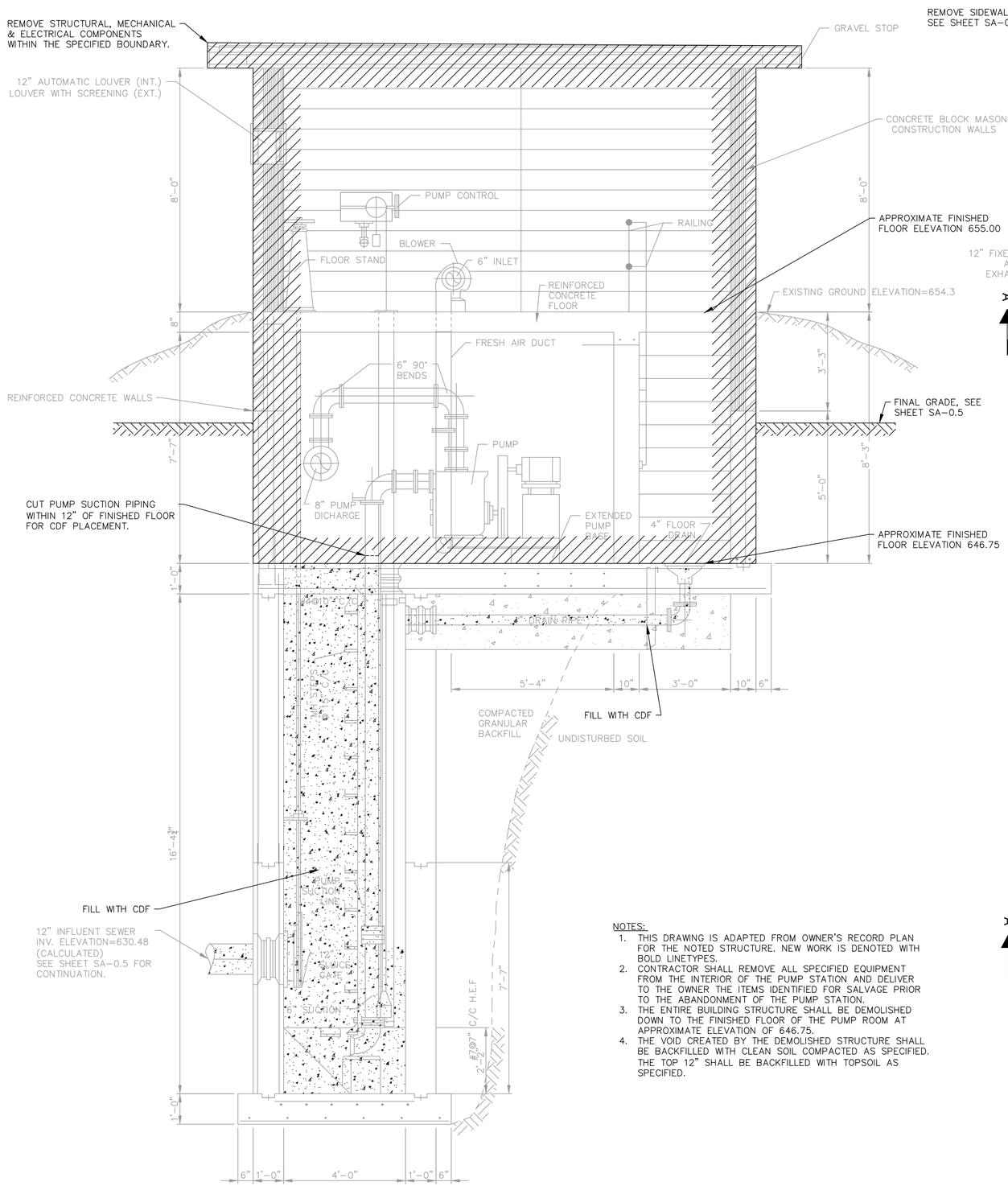
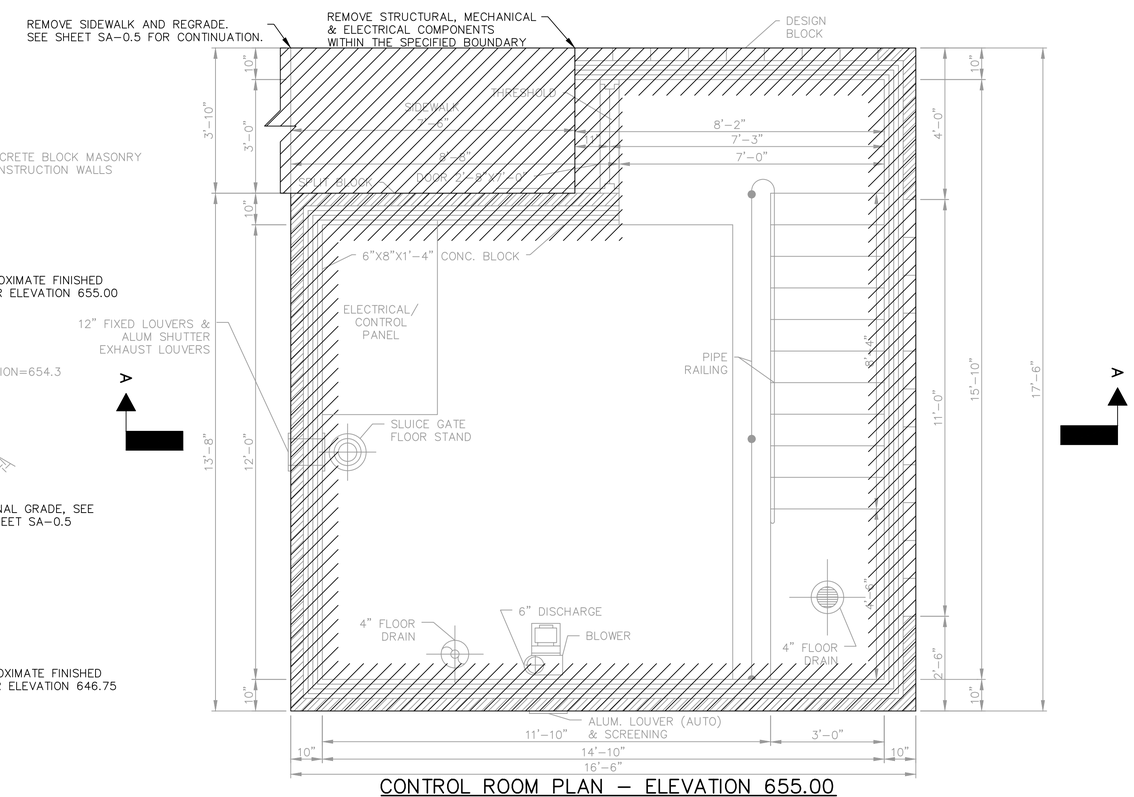


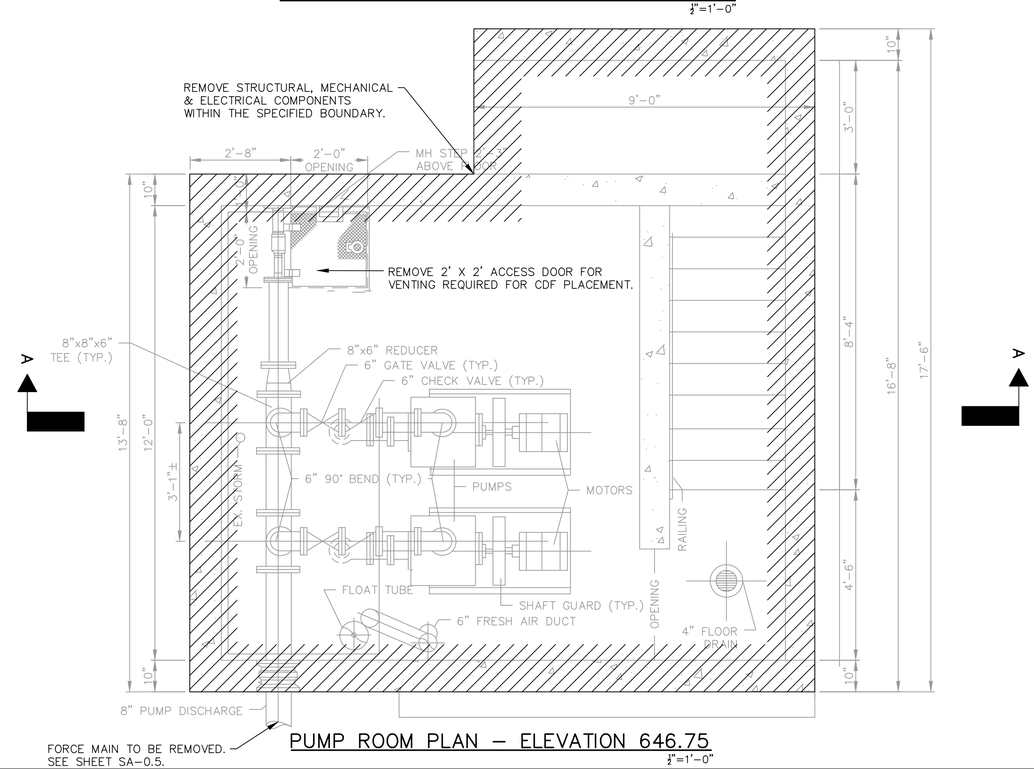
SECTION A–A
½"=1'-0"

NOTES:

1. THIS DRAWING IS ADAPTED FROM OWNER'S RECORD PLAN FOR THE NOTED STRUCTURE. NEW WORK IS DENOTED WITH BOLD LINETYPES.
2. CONTRACTOR SHALL REMOVE ALL SPECIFIED EQUIPMENT FROM THE INTERIOR OF THE PUMP STATION AND DELIVER TO THE OWNER THE ITEMS IDENTIFIED FOR SALVAGE PRIOR TO THE ABANDONMENT OF THE PUMP STATION.
3. THE ENTIRE BUILDING STRUCTURE SHALL BE DEMOLISHED DOWN TO THE FINISHED FLOOR OF THE PUMP ROOM AT APPROXIMATE ELEVATION OF 646.75.
4. THE VOID CREATED BY THE DEMOLISHED STRUCTURE SHALL BE BACKFILLED WITH CLEAN SOIL COMPACTED AS SPECIFIED. THE TOP 12" SHALL BE BACKFILLED WITH TOPSOIL AS SPECIFIED.



CONTROL ROOM PLAN – ELEVATION 655.00
½"=1'-0"



PUMP ROOM PLAN – ELEVATION 646.75
½"=1'-0"

FIELD AVENUE PUMP STATION
DEMOLITION DETAILS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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SCALE 1/2" = 1'-0"

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TOL-7448.002DEMODETAILSFIELDDET
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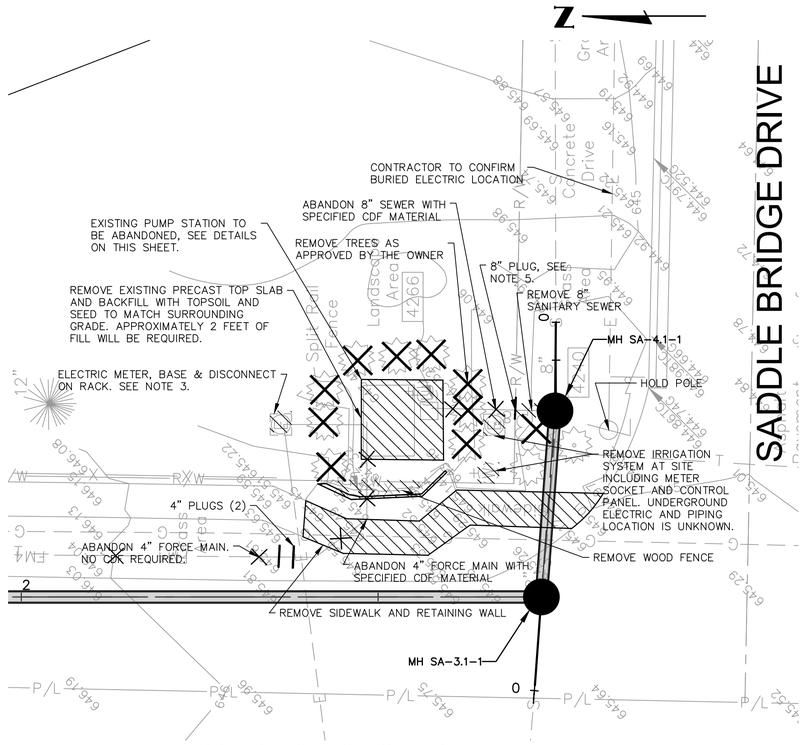
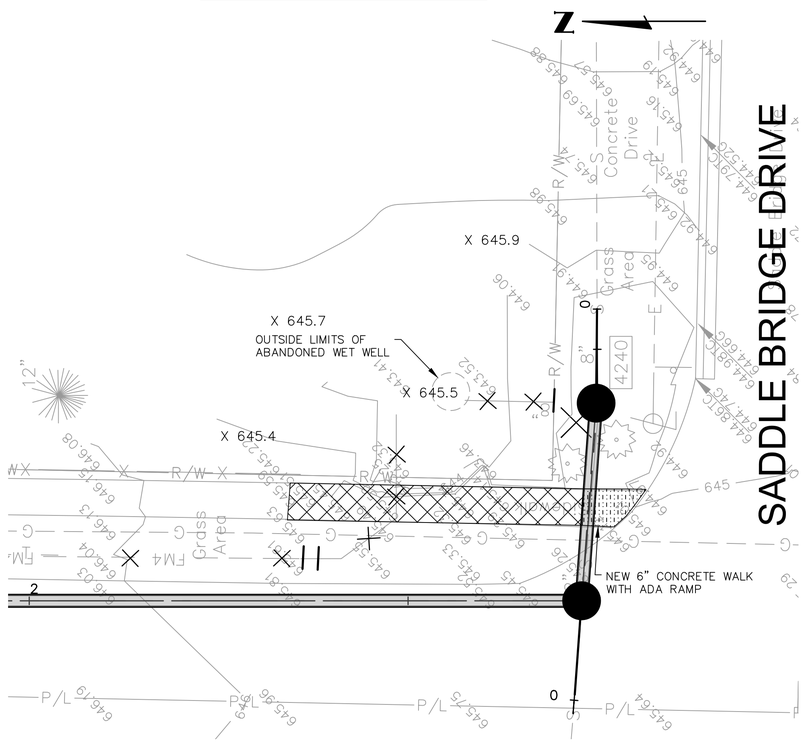
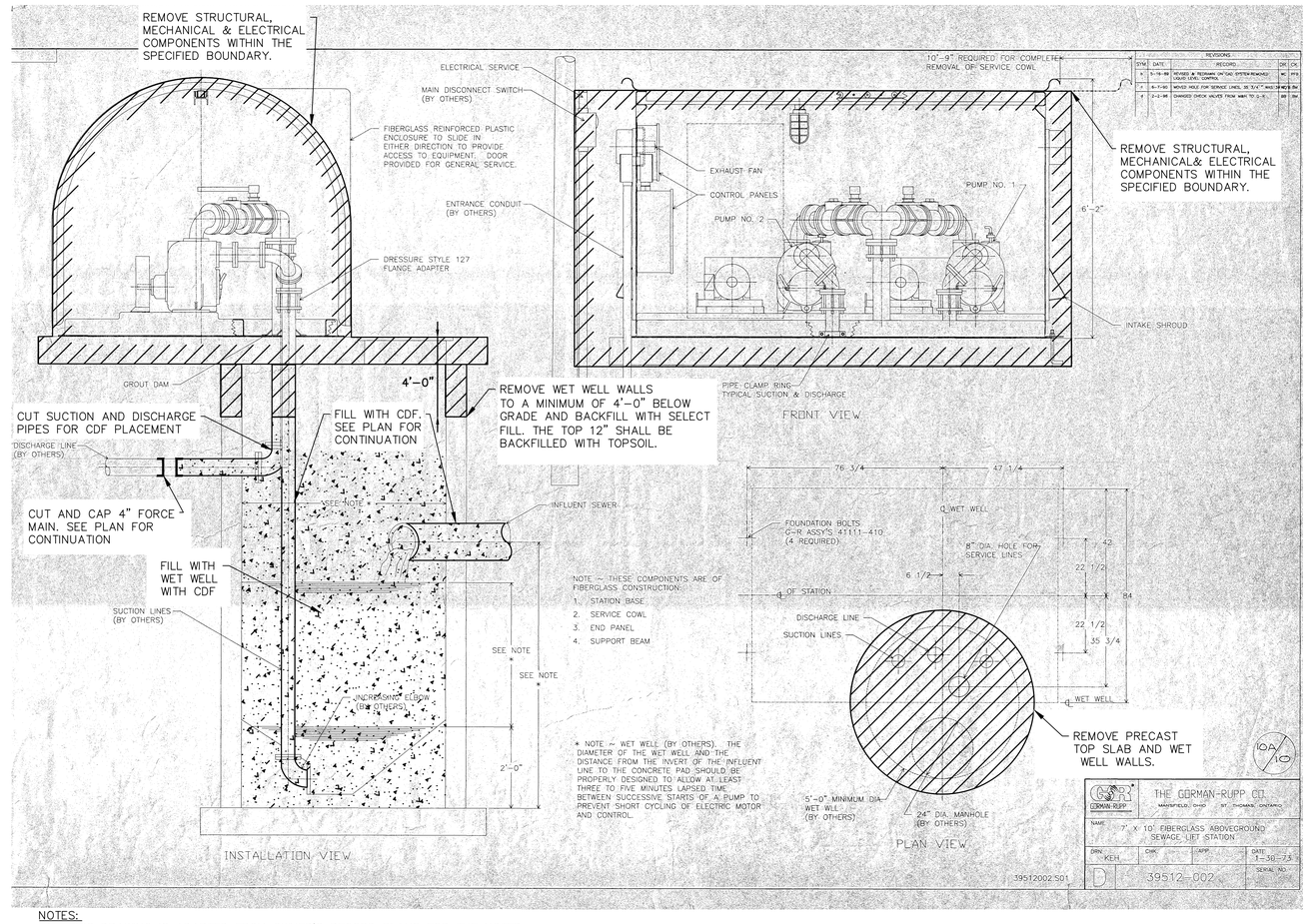


PRE-DEMOLITION SITE PLAN



POST-DEMOLITION SITE PLAN



NOTES:

1. THIS DRAWING IS ADAPTED FROM OWNER'S RECORD PLANS FOR THE NOTED STRUCTURE. NEW WORK IS DENOTED WITH BOLD LINETYPES.
2. CONTRACTOR SHALL REMOVE ALL SPECIFIED EQUIPMENT FROM THE INTERIOR OF THE PUMP STATION AND DELIVER TO THE OWNER THE ITEMS IDENTIFIED FOR SALVAGE IN 02101 PRIOR TO THE ABANDONMENT OF THE PUMP STATION.
3. THE EXISTING ELECTRICAL SERVICE FOR THE PUMP STATION SHALL BE TERMINATED BY THE CONTRACTOR. THE SERVICE DROP REMOVAL SHALL BE COORDINATED WITH TOLEDO EDISON. THE REMOVAL OF THE ELECTRIC SERVICE SHALL INCLUDE THE REMOVAL OF ALL WIRE, CONDUIT AND OTHER ASSOCIATED APPURTENANCES.
4. THE NOTED SEWER AND FORCE MAINS TO BE ABANDONED USING THE SPECIFIED CDF MATERIAL MAY BE FILLED BY PLACING CDF INTO THE WET WELL AND ALLOWING CDF MATERIAL TO FLOW INTO THE PIPES TO BE ABANDONED.
5. PLUGS PLACED ON PIPES TO BE ABANDONED SHALL BE RATED FOR THE HEAD OF CDF MATERIAL INSTALLED TO ROUGHLY ELEVATION 639.0±.
6. THE OWNER WILL OBTAIN OBTAIN PERMISSION FROM THE OWNER OF 10158 SADDLE BRIDGE DRIVE FOR GRADING IMPROVEMENTS TO BE PERFORMED ON PRIVATE PROPERTY.

BLUE GRASS FARMS PUMP STATION DETAILS

NTS

BLUE GRASS FARMS PUMP STATION
DEMOLITION SITE PLAN AND DETAILS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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TOL-7448002EMODETAILSBLUEGRASS
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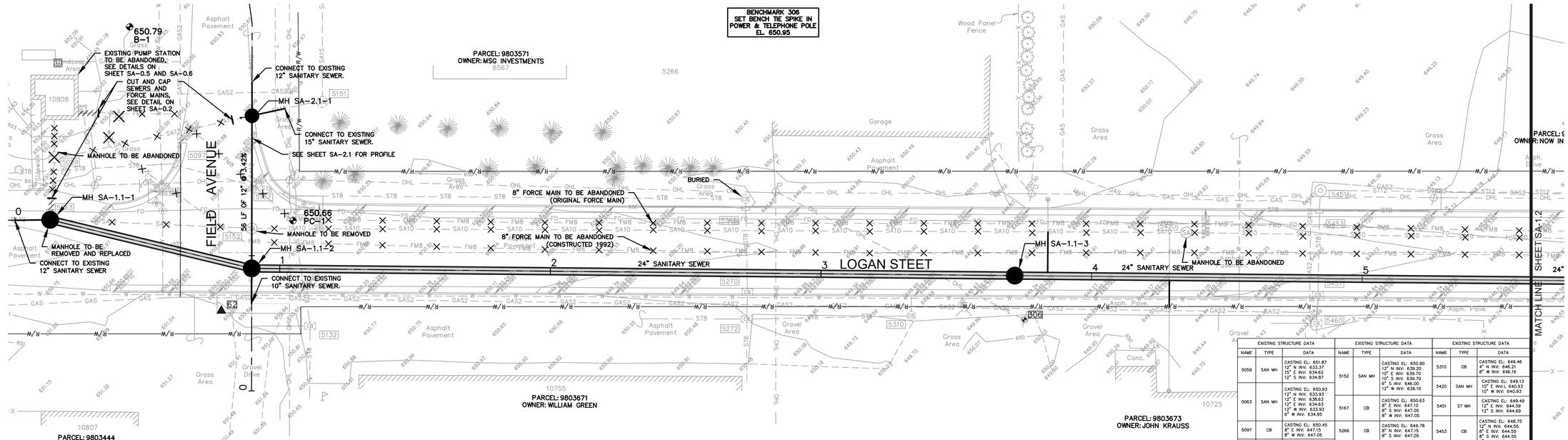
9/25/2020 9:53 AM

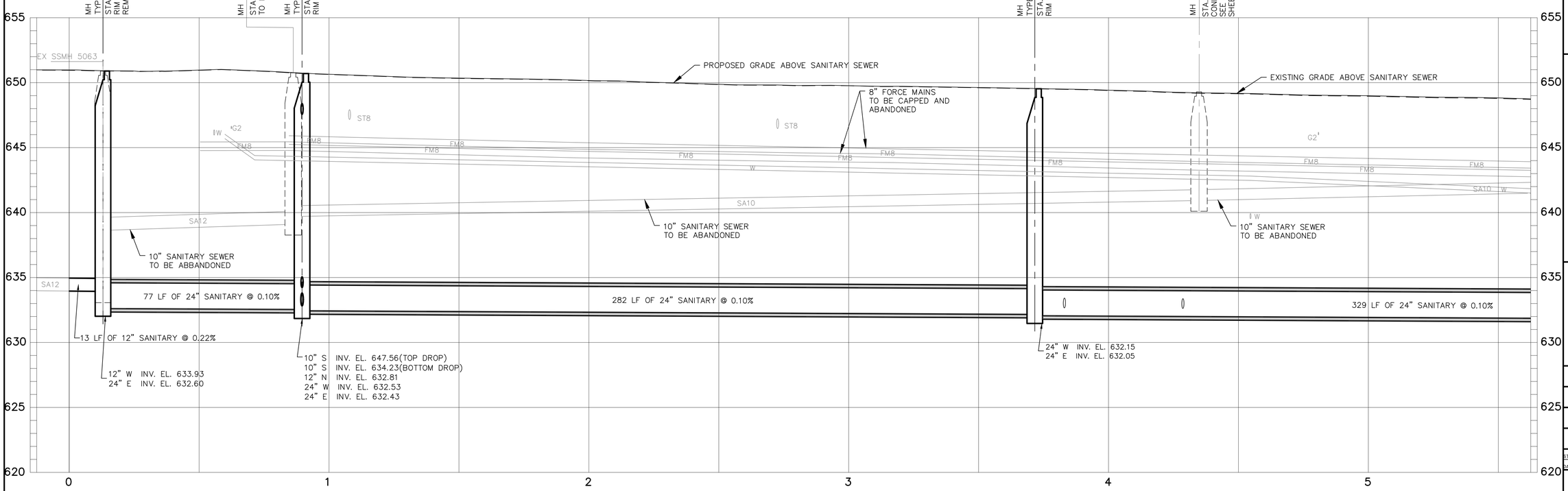


EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
5059	SAN MH	CASTING EL: 651.87 12" N INV: 633.37 15" E INV: 634.62 12" S INV: 634.87
5063	SAN MH	CASTING EL: 650.93 12" N INV: 633.93 12" E INV: 638.63 12" E INV: 634.63 12" W INV: 633.93 6" W INV: 634.95
5097	CB	CASTING EL: 650.45 8" E INV: 647.15 8" W INV: 647.05
5132	CB	CASTING EL: 650.63 8" N INV: 647.33 8" S INV: 647.33 8" W INV: 647.53
5151	SAN MH	CASTING EL: 651.00 15" N INV: 635.00 15" E INV: 634.90

EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
5152	SAN MH	CASTING EL: 650.90 12" N INV: 639.20 10" E INV: 639.70 10" S INV: 639.70 6" S INV: 646.00 12" W INV: 639.10
5167	CB	CASTING EL: 650.63 8" E INV: 647.10 8" S INV: 647.05 8" W INV: 647.05
5266	CB	CASTING EL: 649.78 8" N INV: 647.15 8" S INV: 647.05
5270	CB	CASTING EL: 649.62 8" N INV: 646.62 8" S INV: 646.62
5272	CB	CASTING EL: 650.02 8" N INV: 646.62 8" E INV: 646.67 6" S INV: 647.67 8" W INV: 646.77

EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
5310	CB	CASTING EL: 649.46 4" N INV: 646.21 8" W INV: 646.16
5420	SAN MH	CASTING EL: 649.13 10" E INV.: 640.93 10" W INV: 640.93
5451	ST MH	CASTING EL: 649.49 12" E INV.: 644.59 12" W INV.: 644.69
5453	CB	CASTING EL: 648.75 12" N INV: 644.55 8" E INV: 644.55 8" S INV: 644.55 8" W INV: 644.55
5457	CB	CASTING EL: 648.88 8" S INV: 645.38
5460	CB	CASTING EL: 648.84 8" N INV: 645.54 8" S INV: 645.64

LOGAN STREET



LOGAN STREET SANITARY SEWER PLAN AND PROFILE STA. 0+00 TO 5+50

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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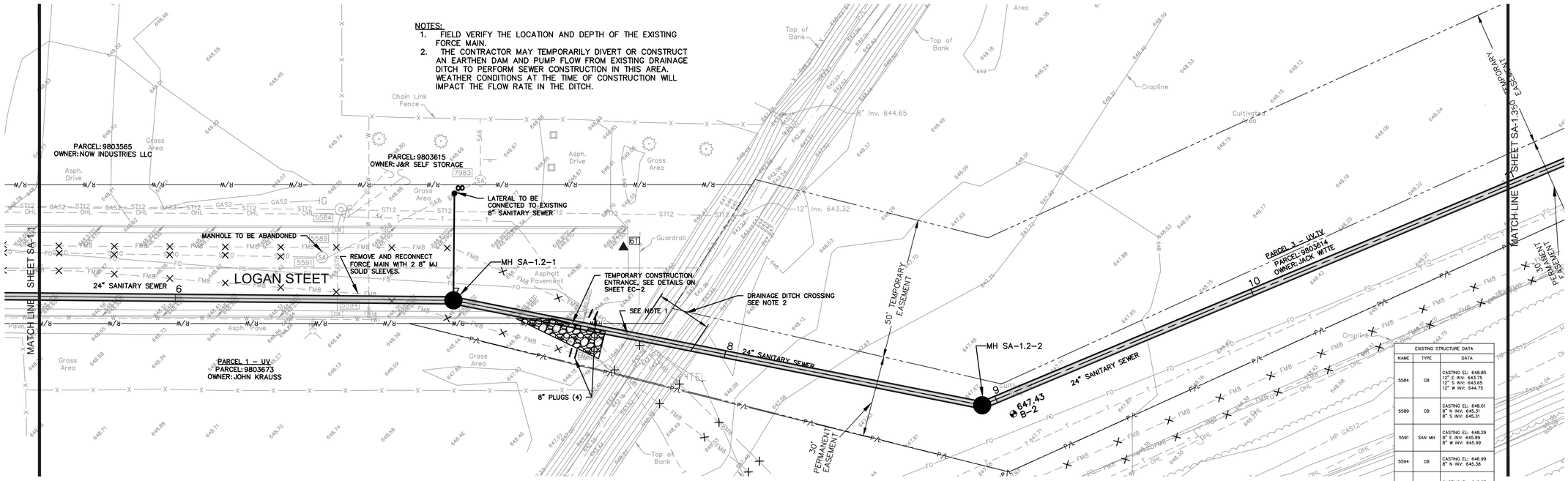
SA-1.1
11 OF 39

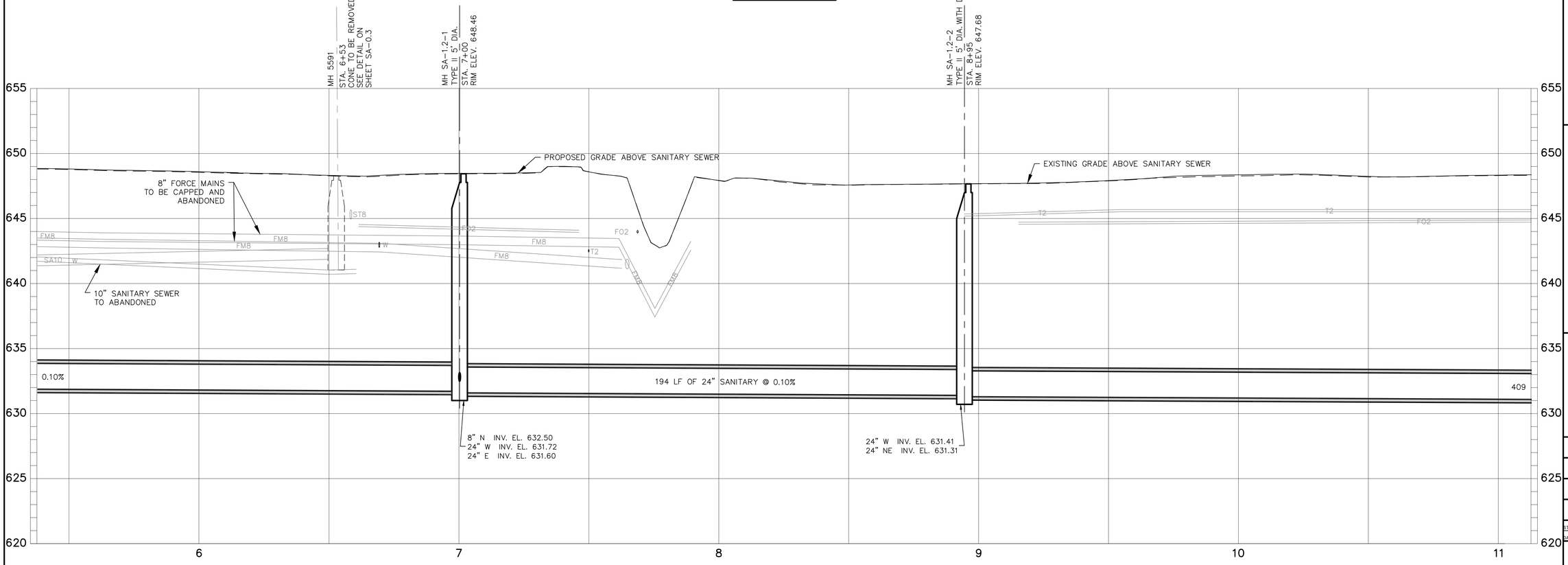
TOL-7448002SA-STA. 0+00 TO 5+50
PLOT SCALE: 1:1
9/25/2020 9:56 AM - AMITCHELL

NOTES:
1. FIELD VERIFY THE LOCATION AND DEPTH OF THE EXISTING FORCE MAIN.
2. THE CONTRACTOR MAY TEMPORARILY DIVERT OR CONSTRUCT AN EARTHEN DAM AND PUMP FLOW FROM EXISTING DRAINAGE DITCH TO PERFORM SEWER CONSTRUCTION IN THIS AREA. WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION WILL IMPACT THE FLOW RATE IN THE DITCH.



EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
5584	CB	CASTING EL: 648.85 12" E INV: 643.75 12" S INV: 643.65 12" W INV: 644.75
5589	CB	CASTING EL: 648.01 8" N INV: 645.31 8" S INV: 645.31
5591	SAN MH	CASTING EL: 648.29 8" E INV: 645.89 8" W INV: 645.99
5594	CB	CASTING EL: 646.99 8" N INV: 645.38
7983	SAN MH	CASTING EL: 648.57 6" N INV: 642.37 8" W INV: 642.27

LOGAN STREET



LOGAN STREET
SANITARY SEWER
PLAN AND PROFILE
STA. 5+50 TO 11+00

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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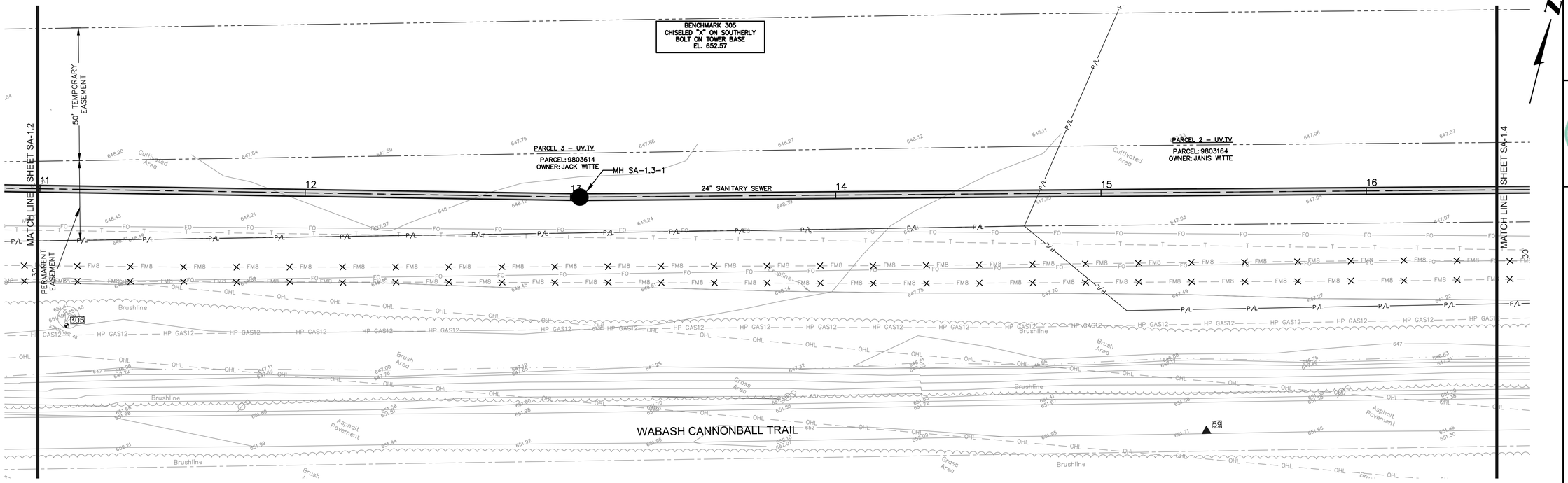
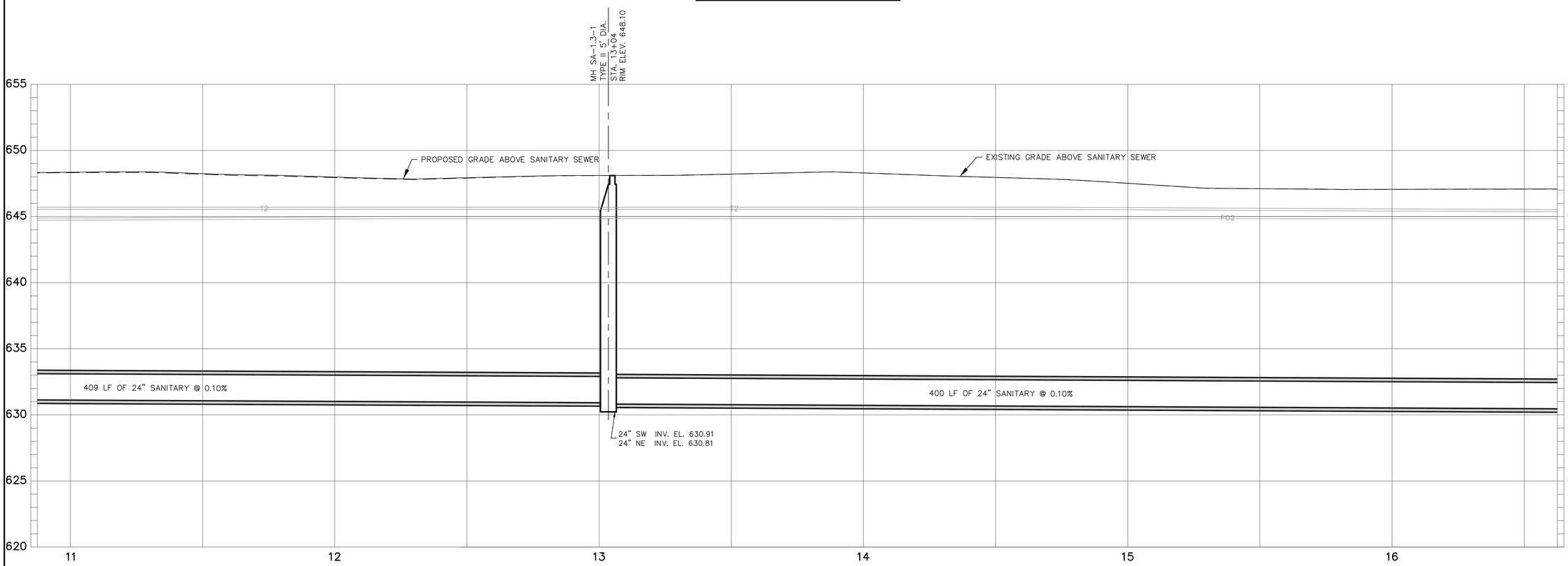
SHEET NO.	SA-1.2
	12 OF 39

TOL-7448002SA-STA. 5+50 TO 11+00
8/27/2020 2:30 PM AMITCHELL
9/25/2020 9:54 AM



WABASH CANNONBALL TRAIL



WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 11+00 TO 16+50

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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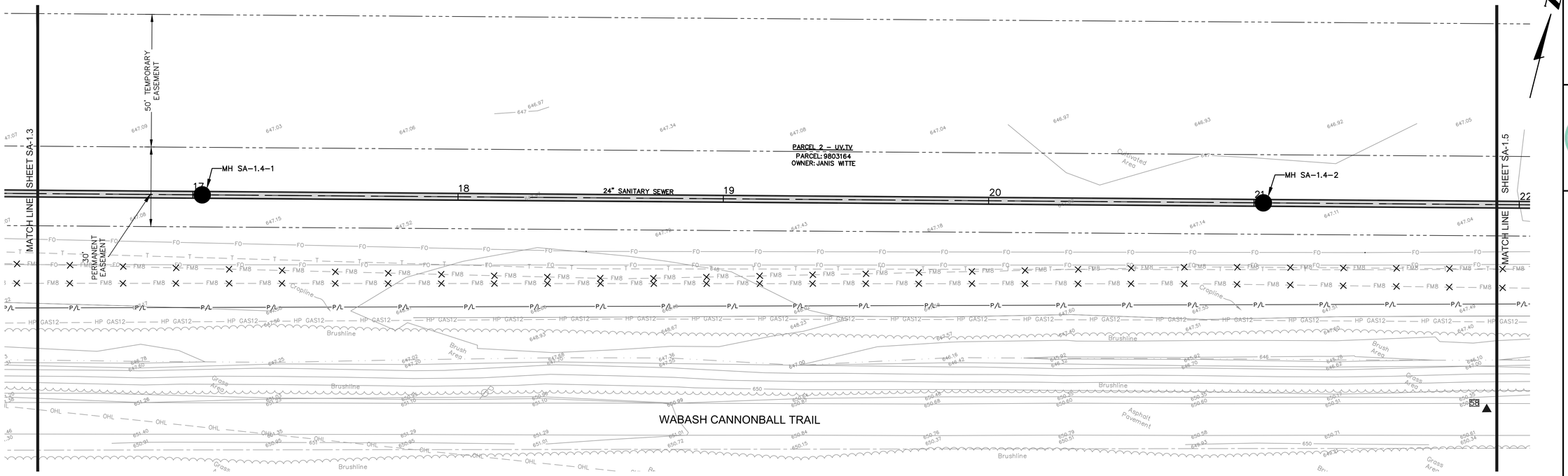
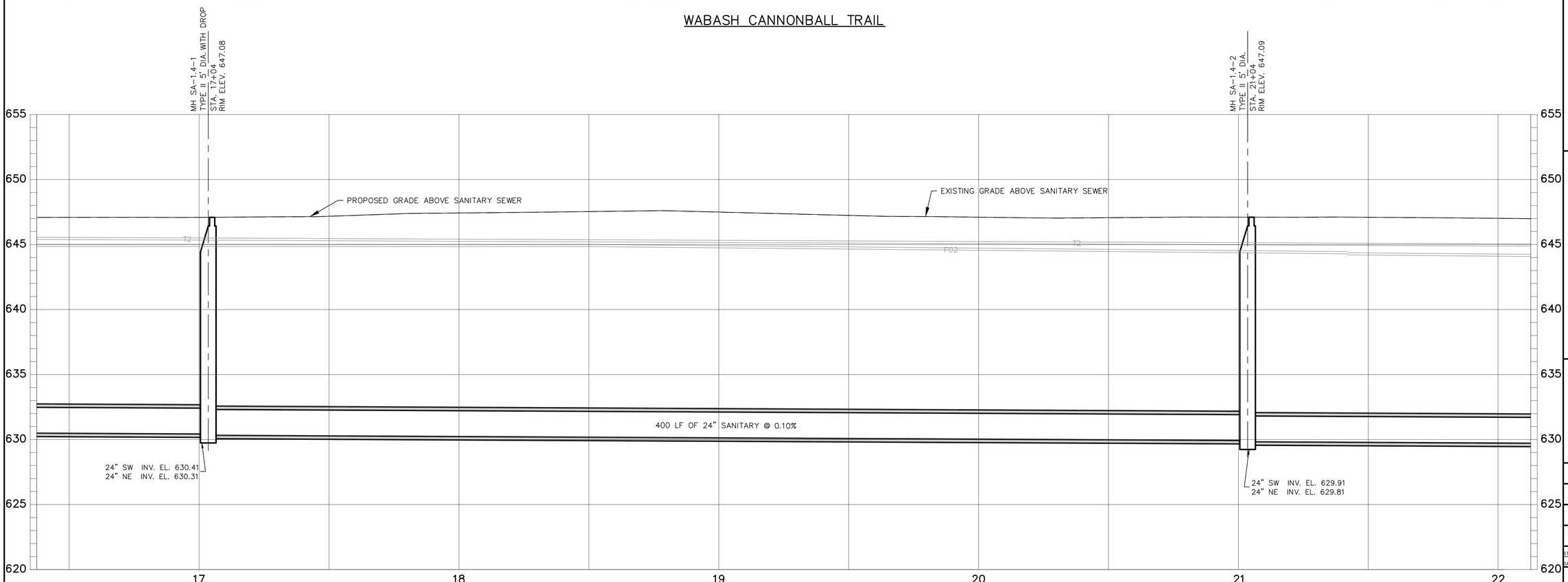
9/17/2020 4:04 PM
9/25/2020 9:34 AM



WABASH CANNONBALL TRAIL



WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 16+50 TO 22+00

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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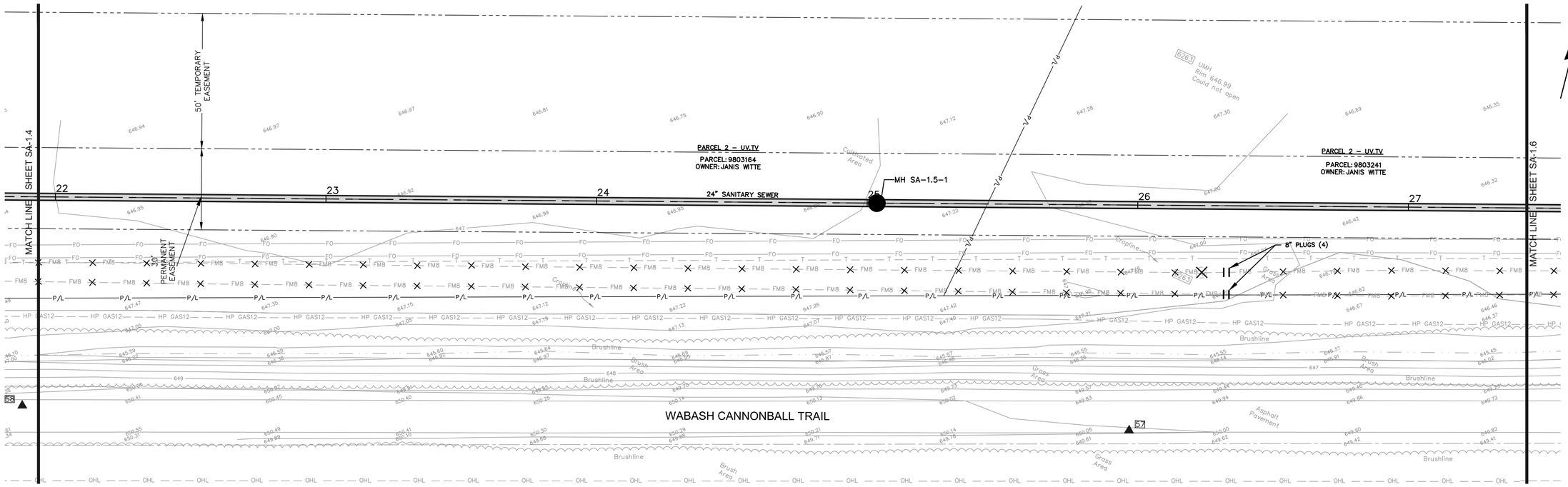
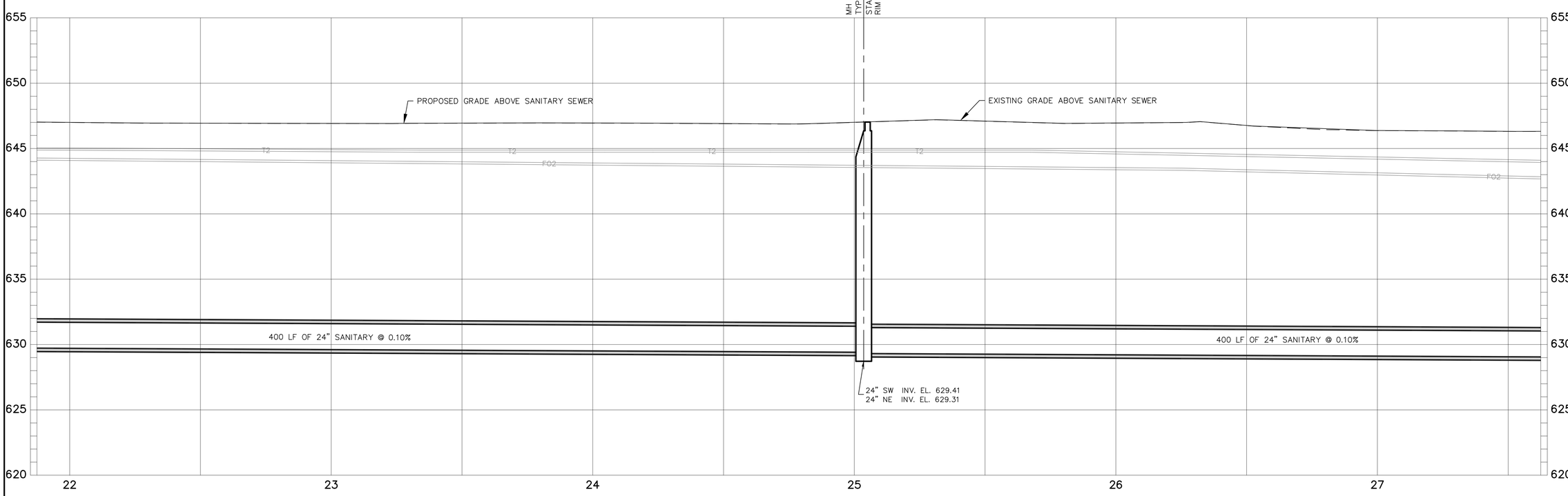
TOL-7448002SA-STA. 16+50 TO 22+00
8/27/2020 4:04 PM - AMITCHELL
9/25/2020 9:36 AM



WABASH CANNONBALL TRAIL



WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 22+00 TO 27+50

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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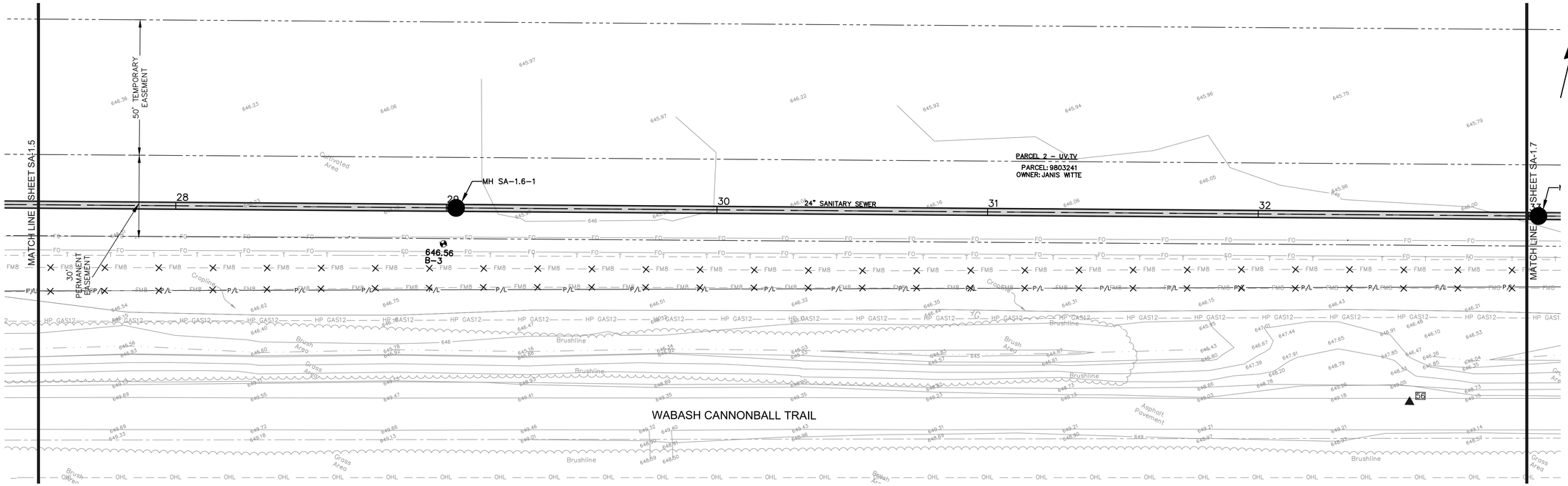
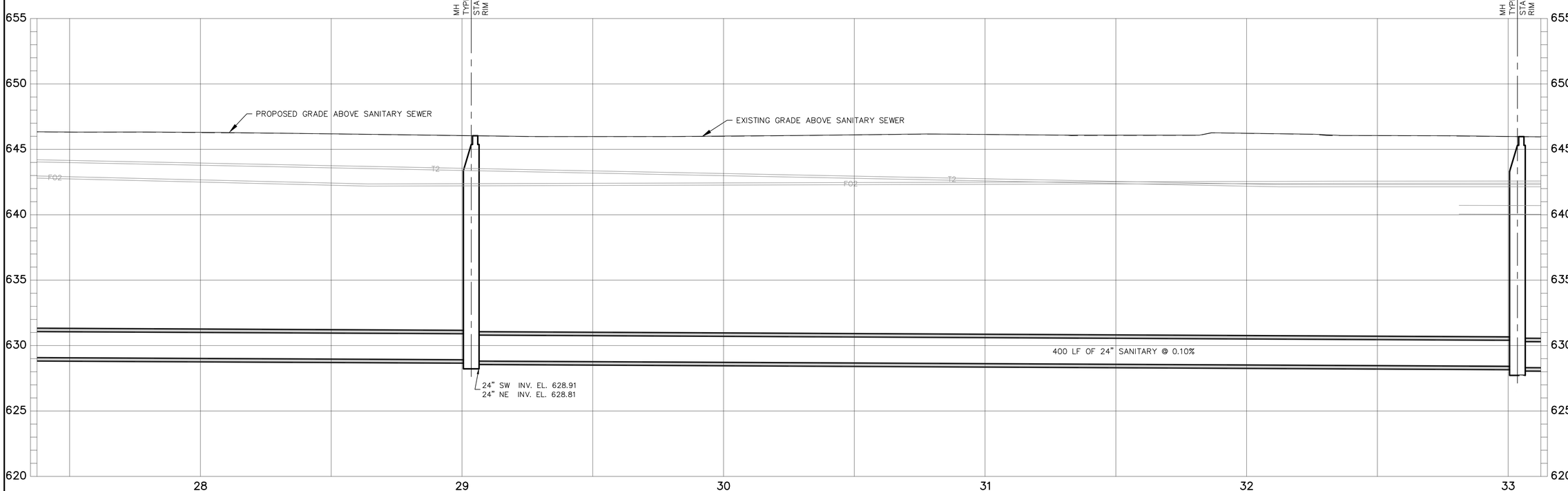
TOL-7448002SA-STA. 22+00 TO 27+50
9/17/2020 1:07 PM AMITCHELL
9/25/2020 9:54 AM



WABASH CANNONBALL TRAIL



WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 27+50 TO 33+00

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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16 OF 39

T01-7448002SA-STA. 27+50 TO 33+00
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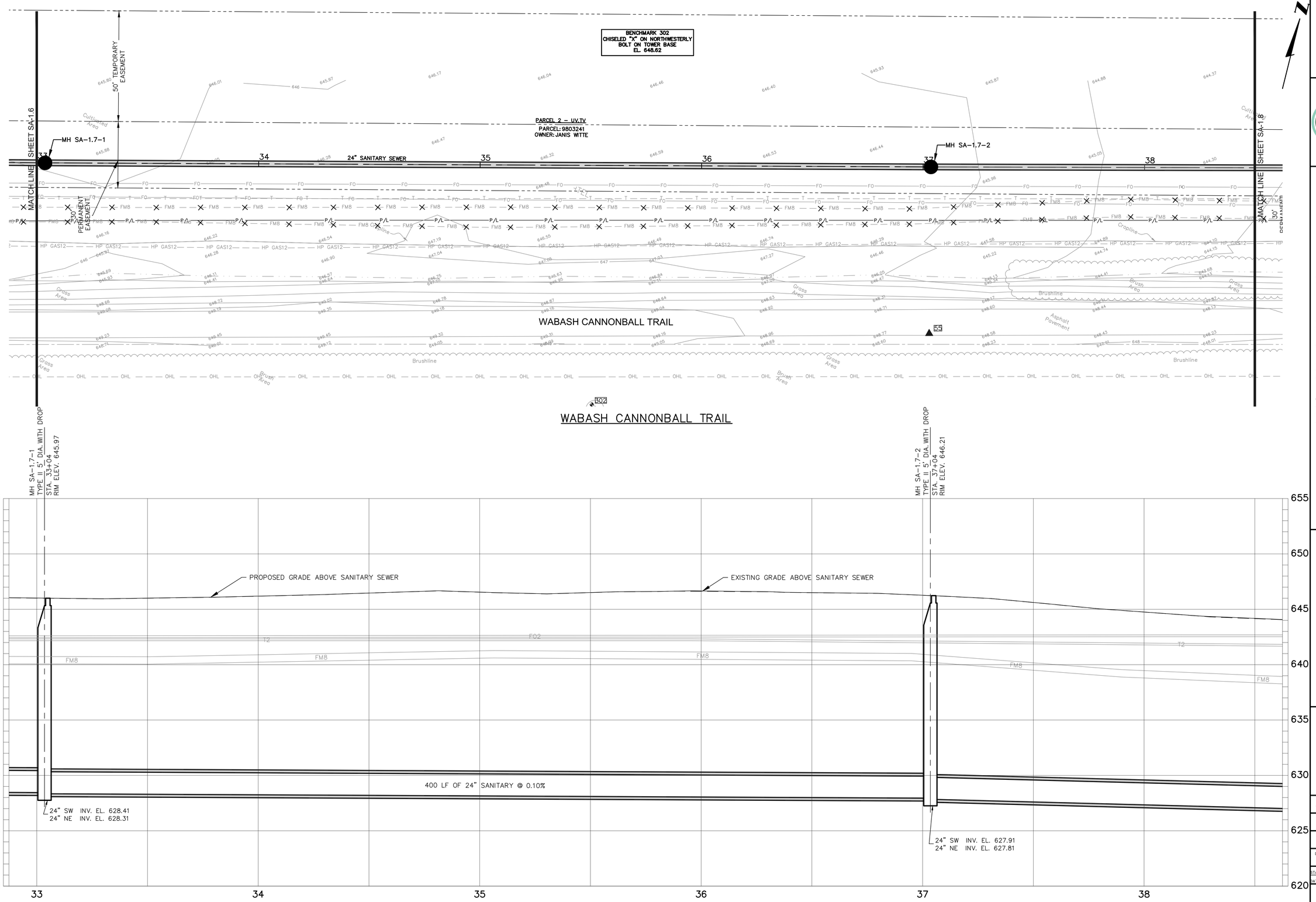
9/25/2020 9:54 AM



WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 33+00 TO 38+50

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
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JOB NO. 334-7448.002

SCALE 1"=20' HOR. 1"=4' VERT.

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STATUS: ISSUED FOR BID
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SHEET NO.
SA-1.7
17 OF 39

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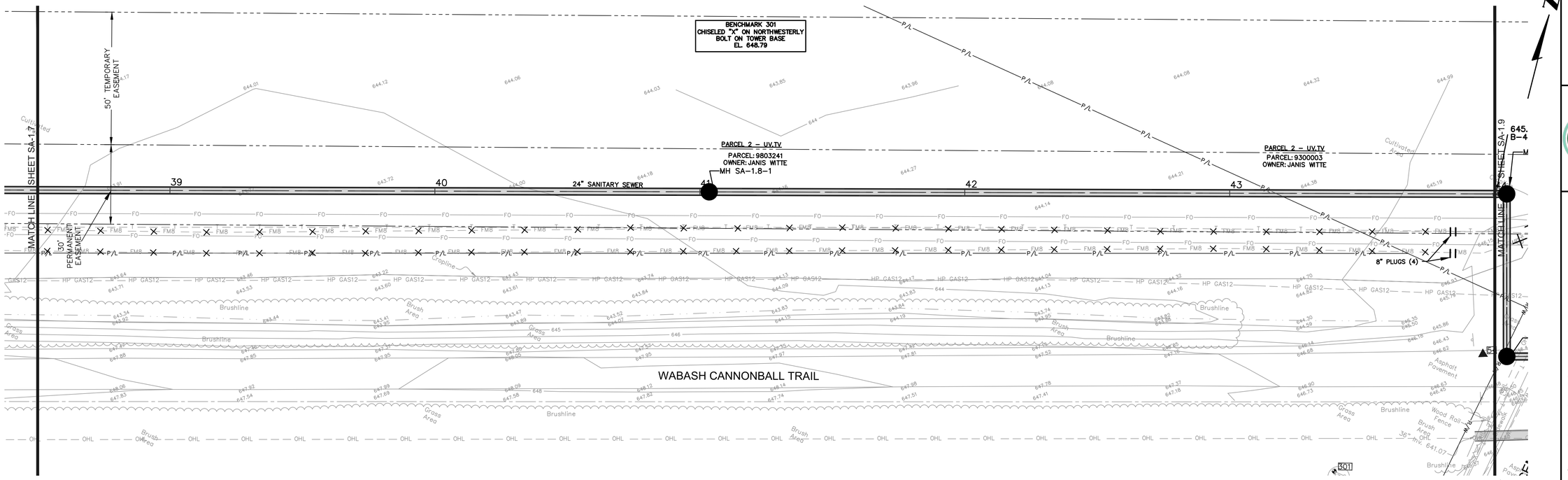
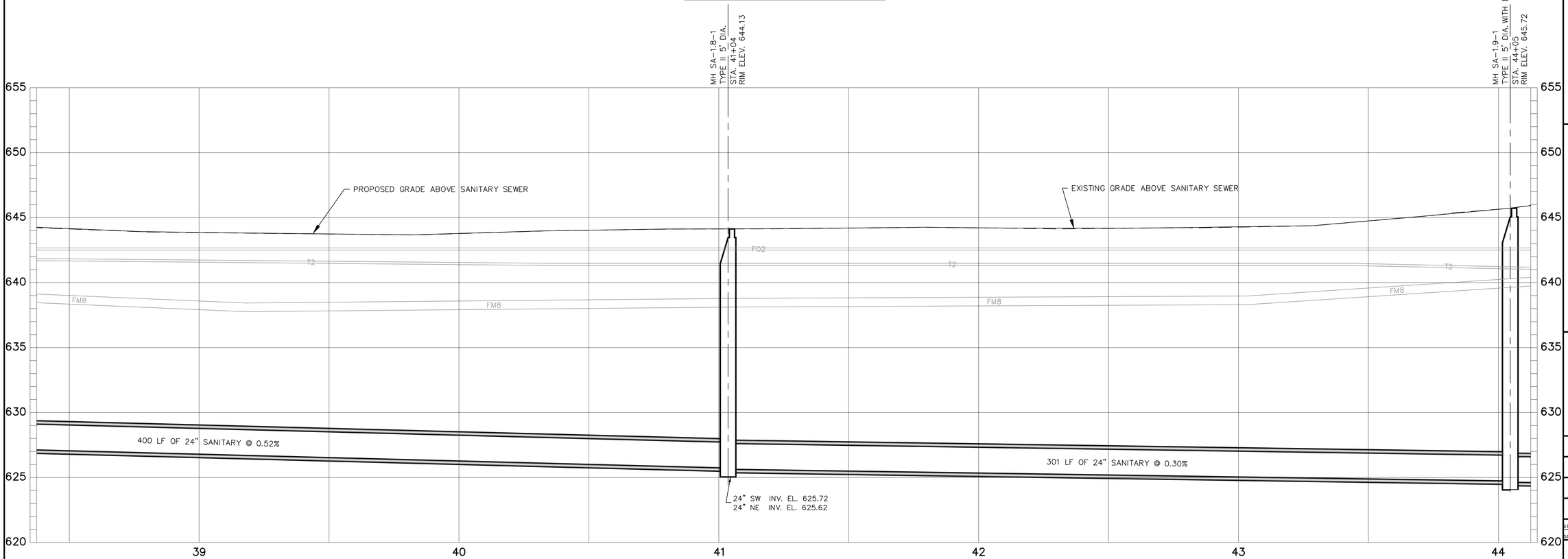


WABASH CANNONBALL TRAIL



WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 38+50 TO 44+00

VILLAGE OF WHITEHOUSE, OHIO WABASH CANONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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SHEET NO.
SA-1.8
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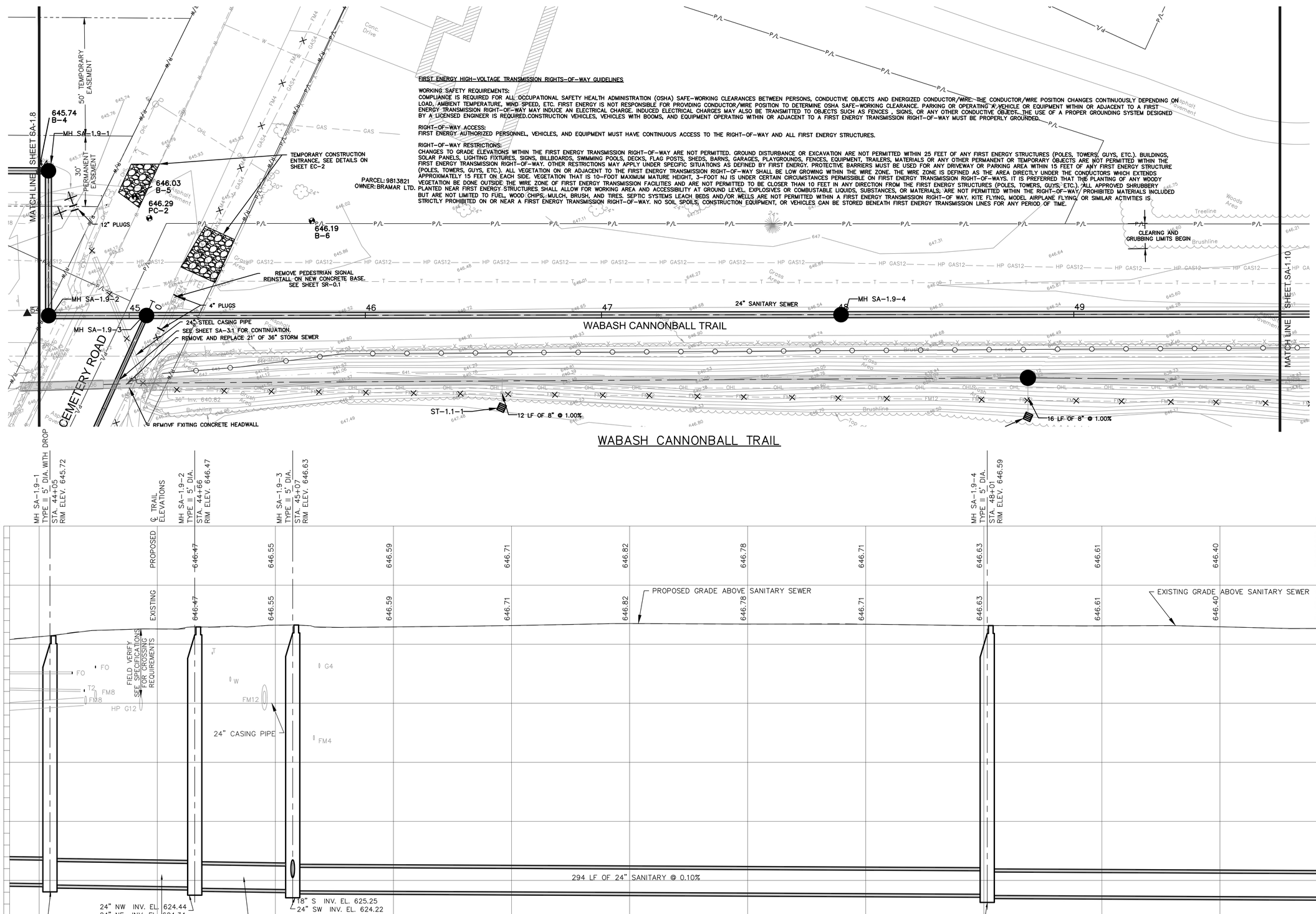

FIRST ENERGY HIGH-VOLTAGE TRANSMISSION RIGHTS-OF-WAY GUIDELINES

WORKING SAFETY REQUIREMENTS:
COMPLIANCE IS REQUIRED FOR ALL OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) SAFE-WORKING CLEARANCES BETWEEN PERSONS, CONDUCTIVE OBJECTS AND ENERGIZED CONDUCTOR/WIRE. THE CONDUCTOR/WIRE POSITION CHANGES CONTINUOUSLY DEPENDING ON LOAD, AMBIENT TEMPERATURE, WIND SPEED, ETC. FIRST ENERGY IS NOT RESPONSIBLE FOR PROVIDING CONDUCTOR/WIRE POSITION TO DETERMINE OSHA SAFE-WORKING CLEARANCE. PARKING OR OPERATING A VEHICLE OR EQUIPMENT WITHIN OR ADJACENT TO A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY MAY INDUCE AN ELECTRICAL CHARGE. INDUCED ELECTRICAL CHARGES MAY ALSO BE TRANSMITTED TO OBJECTS SUCH AS FENCES , SIGNS, OR ANY OTHER CONDUCTIVE OBJECT. THE USE OF A PROPER GROUNDING SYSTEM DESIGNED BY A LICENSED ENGINEER IS REQUIRED.CONSTRUCTION VEHICLES, VEHICLES WITH BOOMS, AND EQUIPMENT OPERATING WITHIN OR ADJACENT TO A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY MUST BE PROPERLY GROUNDED.

RIGHT-OF-WAY ACCESS:
FIRST ENERGY AUTHORIZED PERSONNEL, VEHICLES, AND EQUIPMENT MUST HAVE CONTINUOUS ACCESS TO THE RIGHT-OF-WAY AND ALL FIRST ENERGY STRUCTURES.

RIGHT-OF-WAY RESTRICTIONS:
CHANGES TO GRADE ELEVATIONS WITHIN THE FIRST ENERGY TRANSMISSION RIGHT-OF-WAY ARE NOT PERMITTED. GROUND DISTURBANCE OR EXCAVATION ARE NOT PERMITTED WITHIN 25 FEET OF ANY FIRST ENERGY STRUCTURES (POLES, TOWERS, GUYS, ETC.). BUILDINGS, SOLAR PANELS, LIGHTING FIXTURES, SIGNS, BILLBOARDS, SWIMMING POOLS, DECKS, FLAG POSTS, SHEDS, BARNS, GARAGES, PLAYGROUNDS, FENCES, EQUIPMENT, TRAILERS, MATERIALS OR ANY OTHER PERMANENT OR TEMPORARY OBJECTS ARE NOT PERMITTED WITHIN THE FIRST ENERGY TRANSMISSION RIGHT-OF-WAY. OTHER RESTRICTIONS MAY APPLY UNDER SPECIFIC SITUATIONS AS DEFINED BY FIRST ENERGY. PROTECTIVE BARRIERS MUST BE USED FOR ANY DRIVEWAY OR PARKING AREA WITHIN 15 FEET OF ANY FIRST ENERGY STRUCTURE (POLES, TOWERS, GUYS, ETC.). ALL VEGETATION ON OR ADJACENT TO THE FIRST ENERGY TRANSMISSION RIGHT-OF-WAY SHALL BE LOW GROWING WITHIN THE WIRE ZONE. THE WIRE ZONE IS DEFINED AS THE AREA DIRECTLY UNDER THE CONDUCTORS WHICH EXTENDS APPROXIMATELY 15 FEET ON EACH SIDE. VEGETATION THAT IS 10-FOOT MAXIMUM MATURE HEIGHT, 3-FOOT NU IS UNDER CERTAIN CIRCUMSTANCES PERMISSIBLE ON FIRST ENERGY TRANSMISSION RIGHT-OF-WAYS. IT IS PREFERRED THAT THE PLANTING OF ANY WOODY VEGETATION BE DONE OUTSIDE THE WIRE ZONE OF FIRST ENERGY TRANSMISSION FACILITIES AND ARE NOT PERMITTED TO BE CLOSER THAN 10 FEET IN ANY DIRECTION FROM THE FIRST ENERGY STRUCTURES (POLES, TOWERS, GUYS, ETC.). ALL APPROVED SHRUBBERY PLANTED NEAR FIRST ENERGY STRUCTURES SHALL ALLOW FOR WORKING AREA AND ACCESSIBILITY AT GROUND LEVEL. EXPLOSIVES OR COMBUSTABLE LIQUIDS, SUBSTANCES, OR MATERIALS, ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. PROHIBITED MATERIALS INCLUDED BUT ARE NOT LIMITED TO FUEL, WOOD CHIPS, MULCH, BRUSH, AND TIRES. SEPTIC SYSTEMS LEACH BEDS AND/OR WELLS ARE NOT PERMITTED WITHIN A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY. KITE FLYING, MODEL AIRPLANE FLYING, OR SIMILAR ACTIVITIES IS STRICTLY PROHIBITED ON OR NEAR A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY. NO SOIL SPOILS, CONSTRUCTION EQUIPMENT, OR VEHICLES CAN BE STORED BENEATH FIRST ENERGY TRANSMISSION LINES FOR ANY PERIOD OF TIME.

WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 44+00 TO 49+50

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
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STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020
SHEET NO.
SA-1.9
19 OF 39

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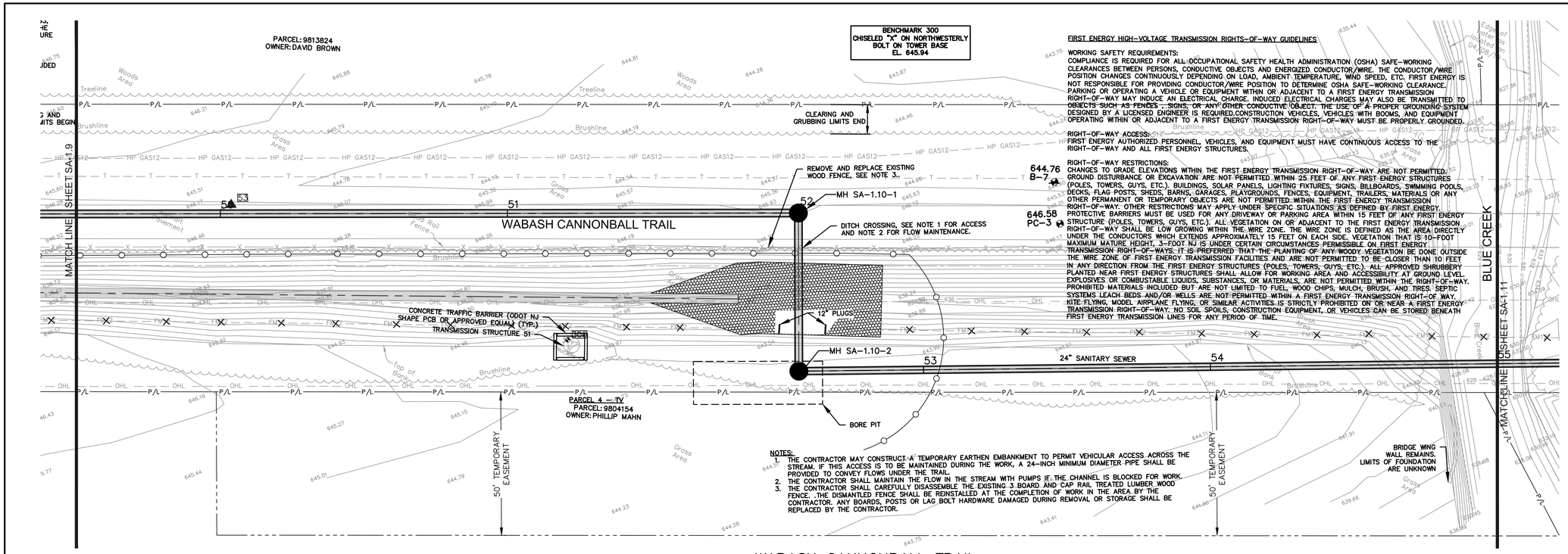
9/25/2020 9:34 AM



FIRST ENERGY HIGH-VOLTAGE TRANSMISSION RIGHTS-OF-WAY GUIDELINES

WORKING SAFETY REQUIREMENTS:
COMPLIANCE IS REQUIRED FOR ALL OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) SAFE-WORKING CLEARANCES BETWEEN PERSONS, CONDUCTIVE OBJECTS AND ENERGIZED CONDUCTOR/WIRE. THE CONDUCTOR/WIRE POSITION CHANGES CONTINUOUSLY DEPENDING ON LOAD, AMBIENT TEMPERATURE, WIND SPEED, ETC. FIRST ENERGY IS NOT RESPONSIBLE FOR PROVIDING CONDUCTOR/WIRE POSITION TO DETERMINE OSHA SAFE-WORKING CLEARANCE. PARKING OR OPERATING A VEHICLE OR EQUIPMENT WITHIN OR ADJACENT TO A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY MAY INDUCE AN ELECTRICAL CHARGE. INDUCED ELECTRICAL CHARGES MAY ALSO BE TRANSMITTED TO OBJECTS SUCH AS FENCES , SIGNS, OR ANY OTHER CONDUCTIVE OBJECT. THE USE OF A PROPER GROUNDING SYSTEM DESIGNED BY A LICENSED ENGINEER IS REQUIRED.CONSTRUCTION VEHICLES, VEHICLES WITH BOOMS, AND EQUIPMENT OPERATING WITHIN OR ADJACENT TO A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY MUST BE PROPERLY GROUNDED.

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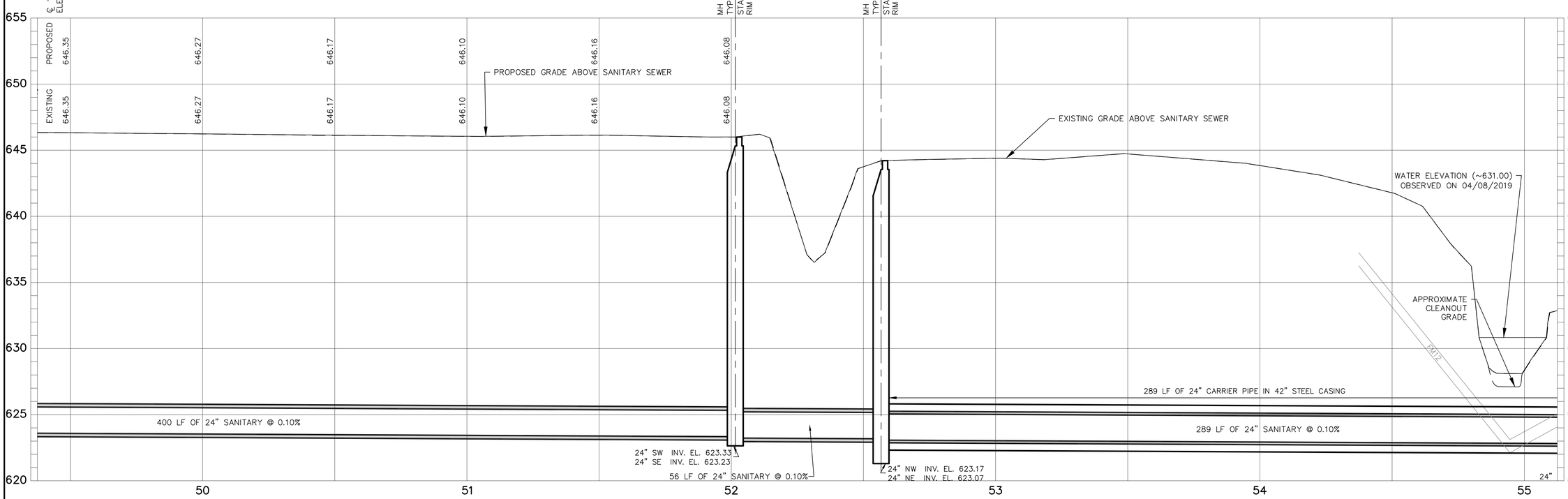
NOTES:
1. THE CONTRACTOR MAY CONSTRUCT A TEMPORARY EARTHEN EMBANKMENT TO PERMIT VEHICULAR ACCESS ACROSS THE STREAM. IF THIS ACCESS IS TO BE MAINTAINED DURING THE WORK, A 24-INCH MINIMUM DIAMETER PIPE SHALL BE PROVIDED TO CONVEY FLOWS UNDER THE TRAIL.
2. THE CONTRACTOR SHALL MAINTAIN THE FLOW IN THE STREAM WITH PUMPS IF THE CHANNEL IS BLOCKED FOR WORK.
3. THE CONTRACTOR SHALL CAREFULLY DISASSEMBLE THE EXISTING 3 BOARD AND CAP RAIL TREATED LUMBER WOOD FENCE. THE DISMANTLED FENCE SHALL BE REINSTALLED AT THE COMPLETION OF WORK IN THE AREA BY THE CONTRACTOR. ANY BOARDS, POSTS OR LAG BOLT HARDWARE DAMAGED DURING REMOVAL OR STORAGE SHALL BE REPLACED BY THE CONTRACTOR.

WABASH CANNONBALL TRAIL



WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 49+50 TO 55+00

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILTATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
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STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020
SHEET NO.
SA-1.10
20 OF 39

TOL-7448002SA-STA. 49+50 TO 55+00
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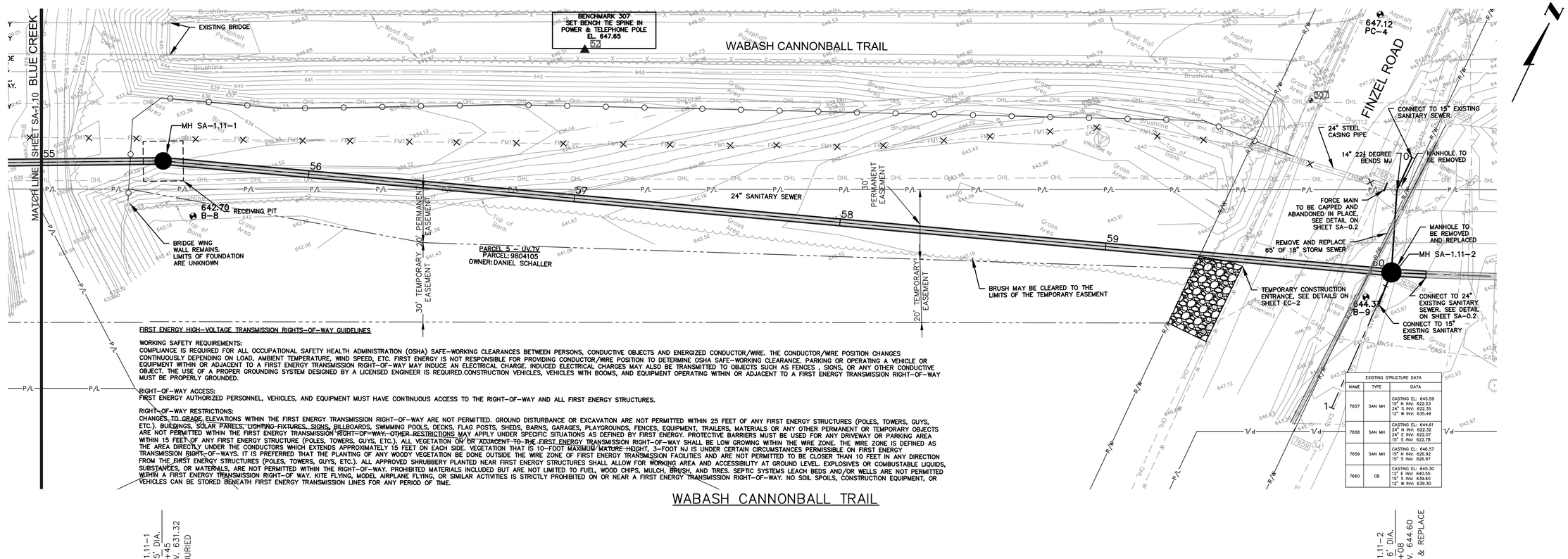
9/25/2020 9:34 AM



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7659	SAN MH	CASTING EL: 646.57 15" N INV: 626.92 15" S INV: 626.97
7660	CB	CASTING EL: 645.30 12" E INV: 640.55 15" S INV: 639.60 12" W INV: 639.30

WABASH CANNONBALL TRAIL
SANITARY SEWER
PLAN AND PROFILE
STA. 55+00 TO 60+21

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
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SHEET NO.	SA-1.11
	21 OF 39

TQL-7448002SA-STA. 55+00 TO 60+21
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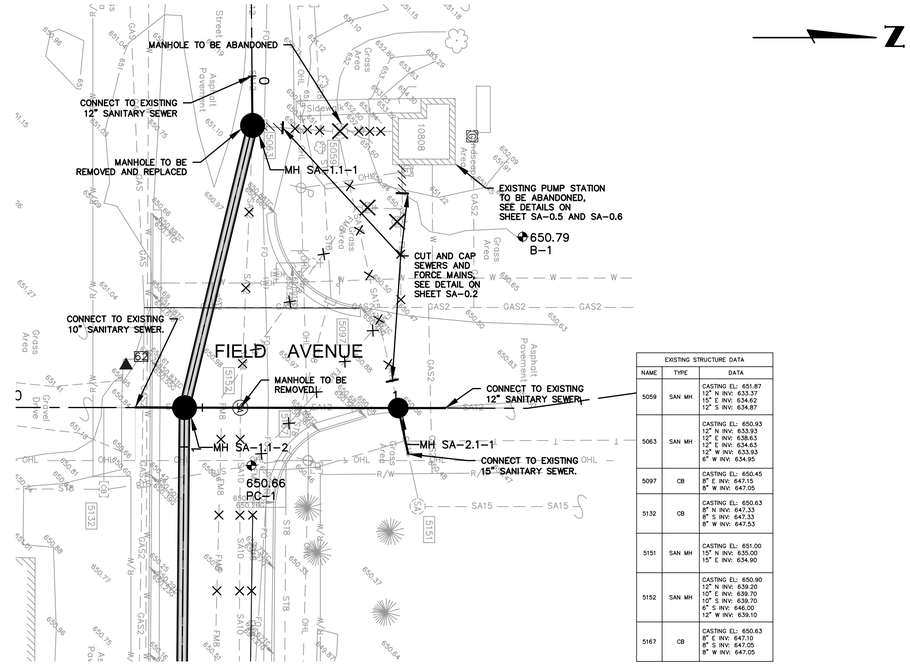
9/25/2020 9:54 AM



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5132	CB	CASTING EL: 650.63 8" N INV: 647.33 8" S INV: 647.33 8" W INV: 647.53
5151	SAN MH	CASTING EL: 651.00 15" N INV: 635.00 15" E INV: 634.90
5152	SAN MH	CASTING EL: 650.90 12" N INV: 639.20 10" E INV: 639.70 10" S INV: 639.70 6" S INV: 646.00 12" W INV: 639.10
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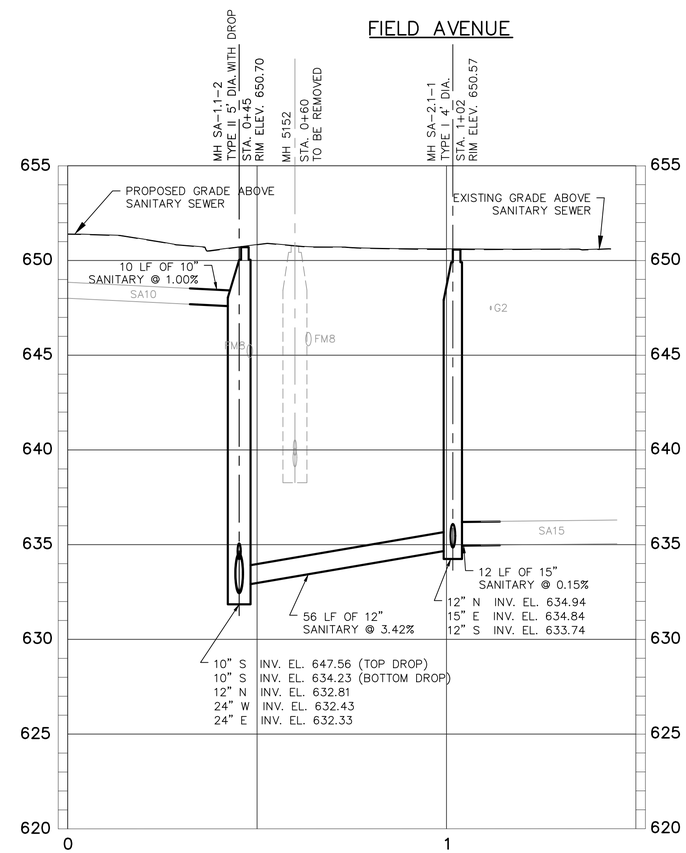

FIELD AVENUE
SANITARY SEWER
PLAN AND PROFILE
STA. 0+00 TO 0+64

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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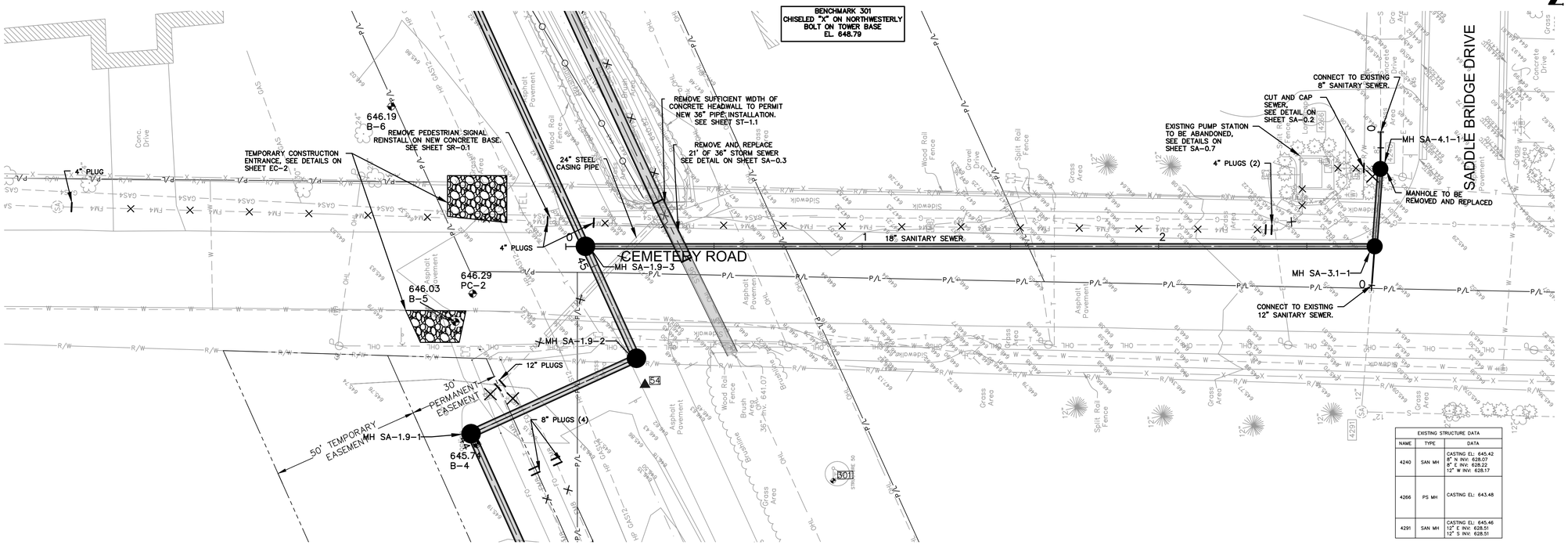
SHEET NO.
SA-2.1
22 OF 39

TOL-7448002SA2-STA. 0+00 TO 0+44
9/25/2020 9:54 AM - AMITCHELL
9/25/2020 9:55 AM



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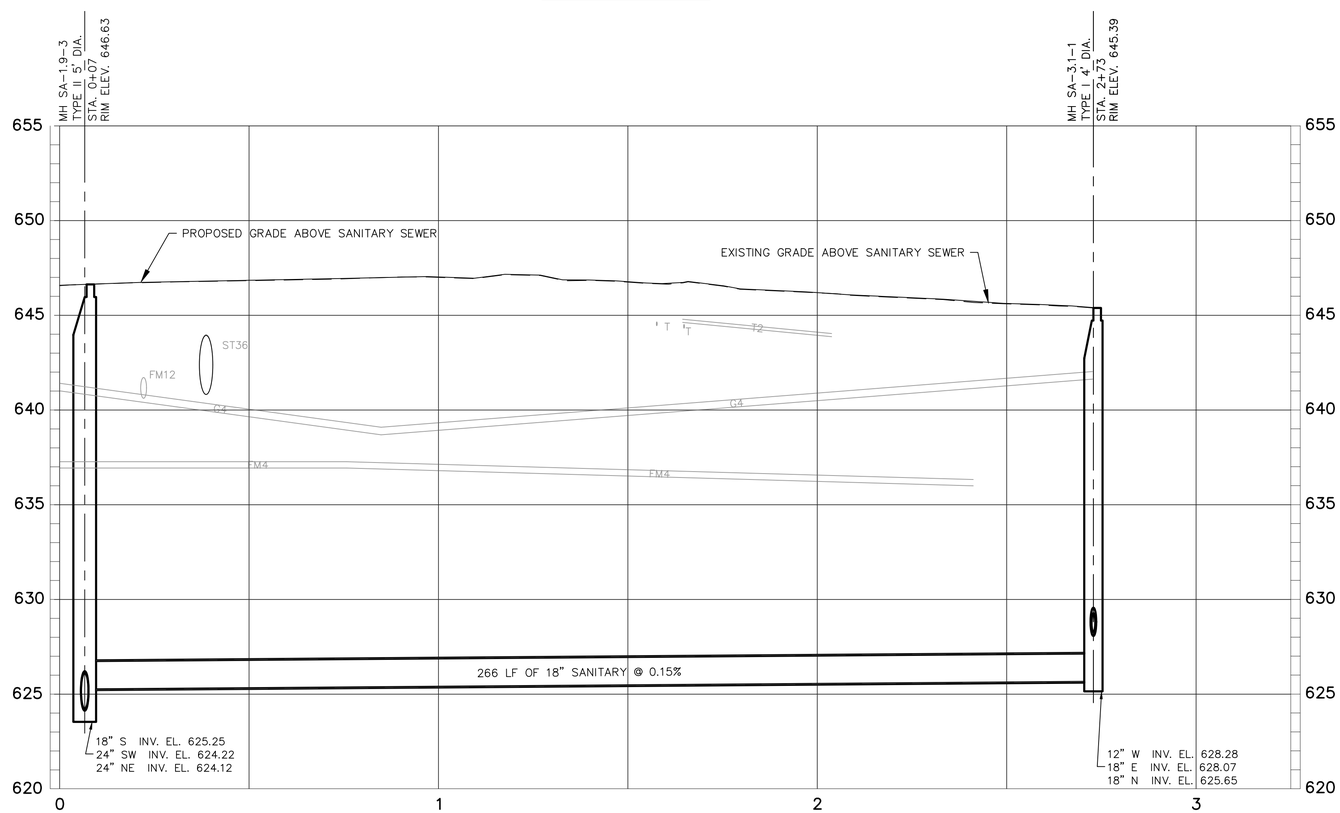

CEMETERY ROAD
SANITARY SEWER
PLAN AND PROFILE
STA. 0+00 TO 2+73

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
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SHEET NO.	SA-3.1
	23 OF 39

TOL-7448002SA3-STA. 0+00 TO 2+73
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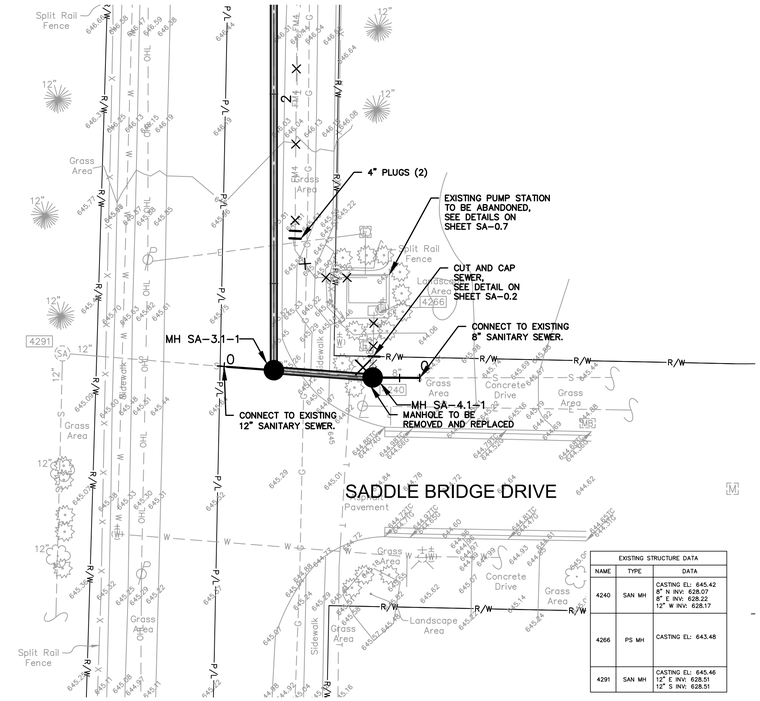
9/25/2020 9:55 AM



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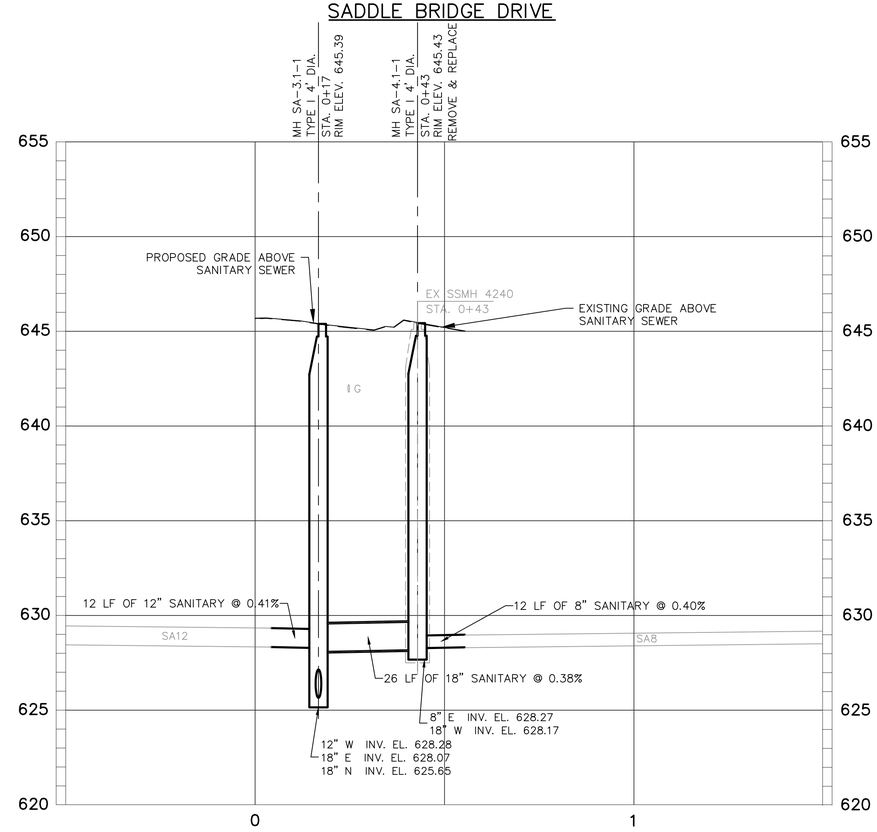
4266	PS MH	CASTING EL: 643.48
4291	SAN MH	CASTING EL: 645.46 12" E INV: 628.51 12" S INV: 628.51

SADDLE BRIDGE DRIVE



SADDLE BRIDGE DRIVE
SANITARY SEWER
PLAN AND PROFILE
STA. 0+00 TO 0+55

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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SA-4.1

24 OF 39

TQL-7448002SA4-STA. 0+00 TO 0+55
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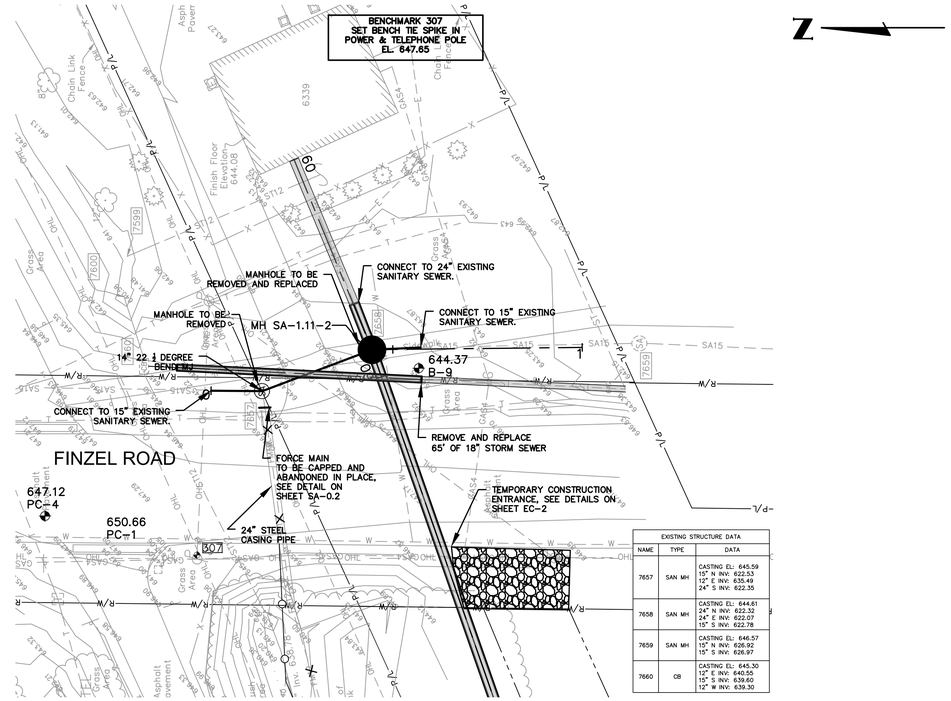

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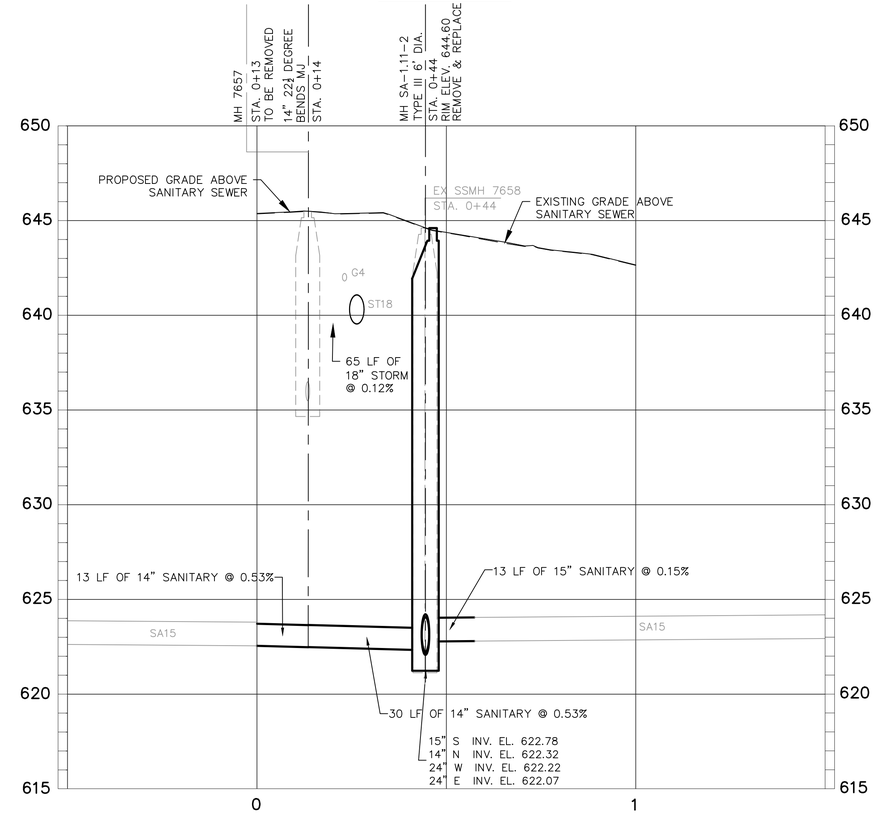
7658	SAN MH	CASTING EL: 644.61 24" N INV: 622.32 24" E INV: 622.07 15" S INV: 622.78
7659	SAN MH	CASTING EL: 646.57 15" N INV: 626.92 15" S INV: 626.97
7660	CB	CASTING EL: 645.30 12" E INV: 640.55 15" S INV: 639.60 12" W INV: 639.30

FINZEL ROAD



FINZEL ROAD
SANITARY SEWER
PLAN AND PROFILE
STA. 0+00 TO 0+57

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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25 OF 39

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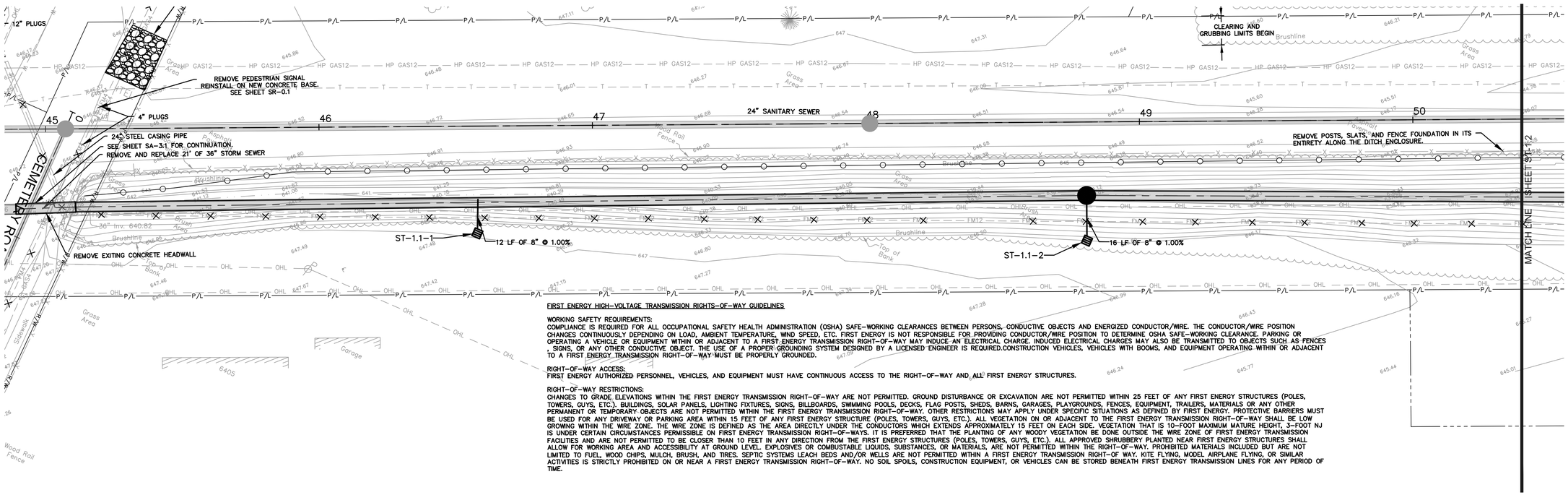
9/25/2020 9:55 AM



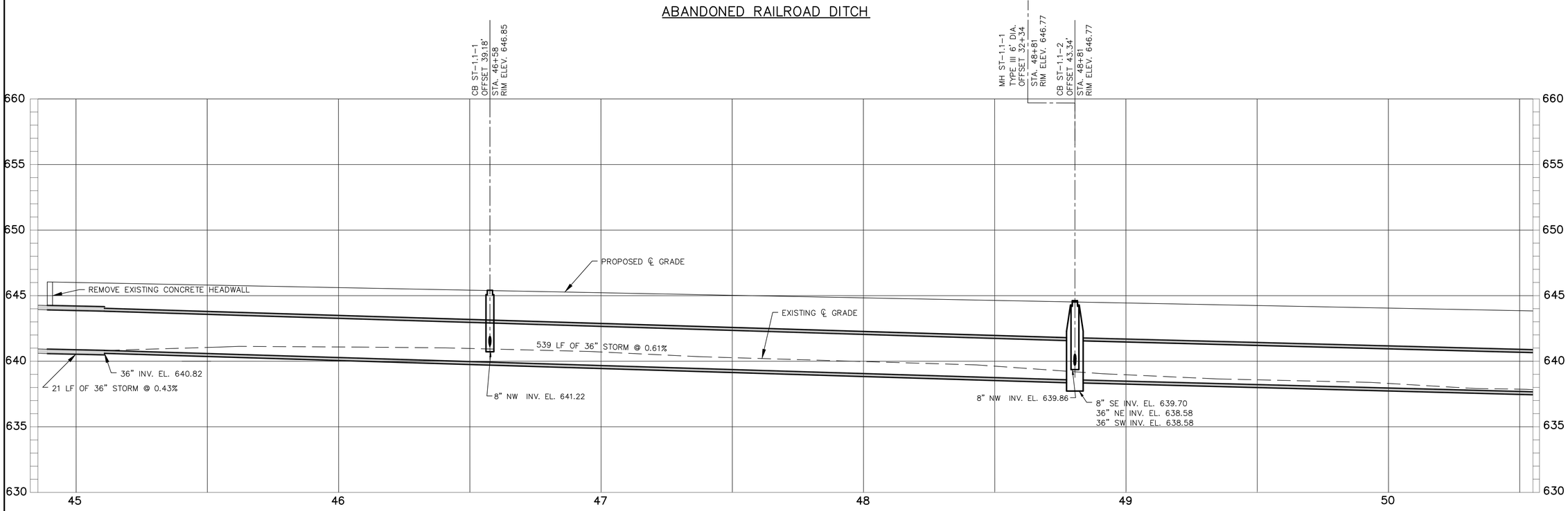
FIRST ENERGY HIGH-VOLTAGE TRANSMISSION RIGHTS-OF-WAY GUIDELINES

WORKING SAFETY REQUIREMENTS:
COMPLIANCE IS REQUIRED FOR ALL OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) SAFE-WORKING CLEARANCES BETWEEN PERSONS, CONDUCTIVE OBJECTS AND ENERGIZED CONDUCTOR/WIRE. THE CONDUCTOR/WIRE POSITION CHANGES CONTINUOUSLY DEPENDING ON LOAD, AMBIENT TEMPERATURE, WIND SPEED, ETC. FIRST ENERGY IS NOT RESPONSIBLE FOR PROVIDING CONDUCTOR/WIRE POSITION TO DETERMINE OSHA SAFE-WORKING CLEARANCE. PARKING OR OPERATING A VEHICLE OR EQUIPMENT WITHIN OR ADJACENT TO A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY MAY INDUCE AN ELECTRICAL CHARGE. INDUCED ELECTRICAL CHARGES MAY ALSO BE TRANSMITTED TO OBJECTS SUCH AS FENCES , SIGNS, OR ANY OTHER CONDUCTIVE OBJECT. THE USE OF A PROPER GROUNDING SYSTEM DESIGNED BY A LICENSED ENGINEER IS REQUIRED.CONSTRUCTION VEHICLES, VEHICLES WITH BOOMS, AND EQUIPMENT OPERATING WITHIN OR ADJACENT TO A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY MUST BE PROPERLY GROUNDED.

RIGHT-OF-WAY ACCESS:
FIRST ENERGY AUTHORIZED PERSONNEL, VEHICLES, AND EQUIPMENT MUST HAVE CONTINUOUS ACCESS TO THE RIGHT-OF-WAY AND ALL FIRST ENERGY STRUCTURES.

RIGHT-OF-WAY RESTRICTIONS:
CHANGES TO GRADE ELEVATIONS WITHIN THE FIRST ENERGY TRANSMISSION RIGHT-OF-WAY ARE NOT PERMITTED. GROUND DISTURBANCE OR EXCAVATION ARE NOT PERMITTED WITHIN 25 FEET OF ANY FIRST ENERGY STRUCTURES (POLES, TOWERS, GUYS, ETC.). BUILDINGS, SOLAR PANELS, LIGHTING FIXTURES, SIGNS, BILLBOARDS, SWIMMING POOLS, DECKS, FLAG POSTS, SHEDS, BARNS, GARAGES, PLAYGROUNDS, FENCES, EQUIPMENT, TRAILERS, MATERIALS OR ANY OTHER PERMANENT OR TEMPORARY OBJECTS ARE NOT PERMITTED WITHIN THE FIRST ENERGY TRANSMISSION RIGHT-OF-WAY. OTHER RESTRICTIONS MAY APPLY UNDER SPECIFIC SITUATIONS AS DEFINED BY FIRST ENERGY. PROTECTIVE BARRIERS MUST BE USED FOR ANY DRIVEWAY OR PARKING AREA WITHIN 15 FEET OF ANY FIRST ENERGY STRUCTURE (POLES, TOWERS, GUYS, ETC.). ALL VEGETATION ON OR ADJACENT TO THE FIRST ENERGY TRANSMISSION RIGHT-OF-WAY SHALL BE LOW GROWING WITHIN THE WIRE ZONE. THE WIRE ZONE IS DEFINED AS THE AREA DIRECTLY UNDER THE CONDUCTORS WHICH EXTENDS APPROXIMATELY 15 FEET ON EACH SIDE. VEGETATION THAT IS 10-FOOT MAXIMUM MATURE HEIGHT, 3-FOOT NJ IS UNDER CERTAIN CIRCUMSTANCES PERMISSIBLE ON FIRST ENERGY TRANSMISSION RIGHT-OF-WAYS. IT IS PREFERRED THAT THE PLANTING OF ANY WOODY VEGETATION BE DONE OUTSIDE THE WIRE ZONE OF FIRST ENERGY TRANSMISSION FACILITIES AND ARE NOT PERMITTED TO BE CLOSER THAN 10 FEET IN ANY DIRECTION FROM THE FIRST ENERGY STRUCTURES (POLES, TOWERS, GUYS, ETC.). ALL APPROVED SHRUBBERY PLANTED NEAR FIRST ENERGY STRUCTURES SHALL ALLOW FOR WORKING AREA AND ACCESSIBILITY AT GROUND LEVEL. EXPLOSIVES OR COMBUSTABLE LIQUIDS, SUBSTANCES, OR MATERIALS, ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. PROHIBITED MATERIALS INCLUDED BUT ARE NOT LIMITED TO FUEL, WOOD CHIPS, MULCH, BRUSH, AND TIRES. SEPTIC SYSTEMS LEACH BEDS AND/OR WELLS ARE NOT PERMITTED WITHIN A FIRST ENERGY TRANSMISSION RIGHT-OF WAY. KITE FLYING, MODEL AIRPLANE FLYING, OR SIMILAR ACTIVITIES IS STRICTLY PROHIBITED ON OR NEAR A FIRST ENERGY TRANSMISSION RIGHT-OF-WAY. NO SOIL SPOILS, CONSTRUCTION EQUIPMENT, OR VEHICLES CAN BE STORED BENEATH FIRST ENERGY TRANSMISSION LINES FOR ANY PERIOD OF TIME.

ABANDONED RAILROAD DITCH



ABANDONED RAILROAD DITCH
STORM SEWER
PLAN AND PROFILE
STA. 45+00 TO 50+50

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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26 OF 39

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9/25/2020 9:55 AM

FIRST ENERGY HIGH-VOLTAGE TRANSMISSION RIGHTS-OF-WAY GUIDELINES

WORKING SAFETY REQUIREMENTS:
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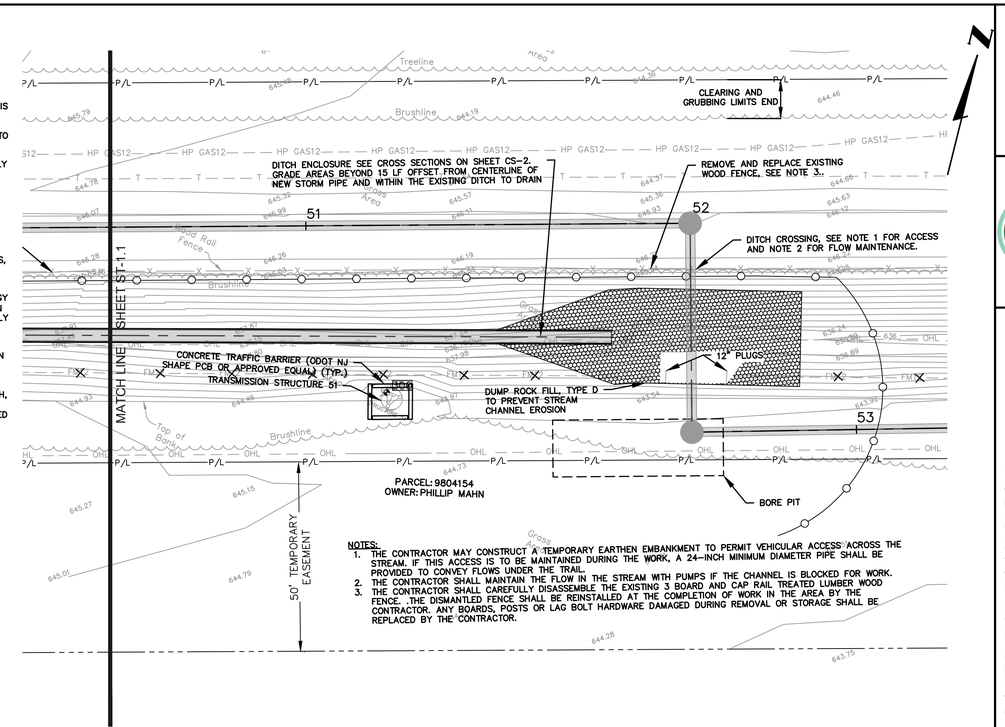
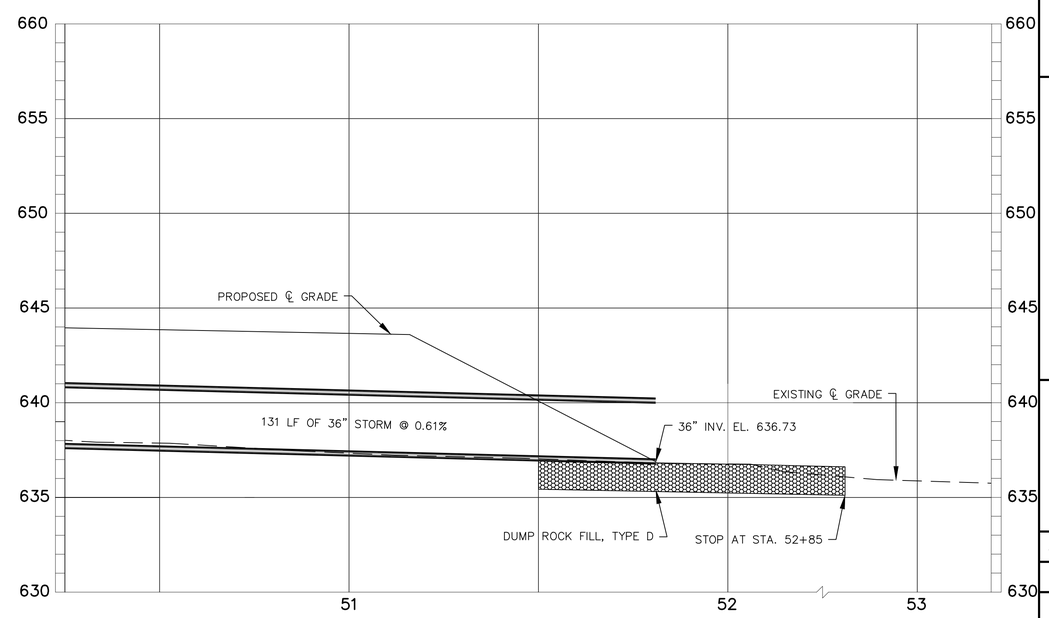


NOTES:
1. THE CONTRACTOR MAY CONSTRUCT A TEMPORARY EARTHEN EMBANKMENT TO PERMIT VEHICULAR ACCESS ACROSS THE STREAM. IF THIS ACCESS IS TO BE MAINTAINED DURING THE WORK, A 24-INCH MINIMUM DIAMETER PIPE SHALL BE PROVIDED TO CONVEY FLOWS UNDER THE TRAIL.
2. THE CONTRACTOR SHALL MAINTAIN THE FLOW IN THE STREAM WITH PUMPS IF THE CHANNEL IS BLOCKED FOR WORK.
3. THE CONTRACTOR SHALL CAREFULLY DISASSEMBLE THE EXISTING 3 BOARD AND CAP RAIL TREATED LUMBER WOOD FENCE. THE DISMANTLED FENCE SHALL BE REINSTALLED AT THE COMPLETION OF WORK IN THE AREA BY THE CONTRACTOR. ANY BOARDS, POSTS OR LAG BOLT HARDWARE DAMAGED DURING REMOVAL OR STORAGE SHALL BE REPLACED BY THE CONTRACTOR.

ABANDONED RAILROAD DITCH



ABANDONED RAILROAD DITCH
STORM SEWER
PLAN AND PROFILE
STA. 50+50 TO 52+85

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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27 OF 39

TOL-7448002ST-STA. 50+50 TO 52+85
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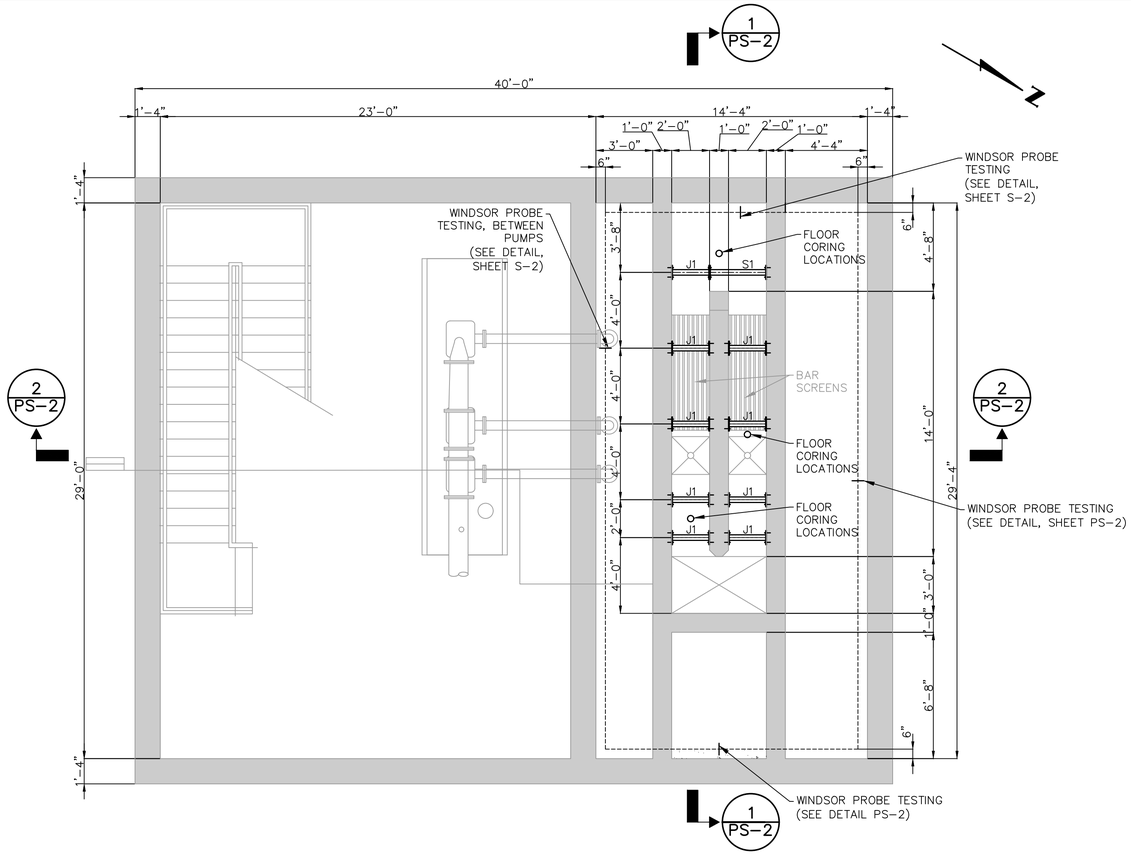
9/25/2020 9:55 AM



FLOOR PLAN @ EL. 627.00

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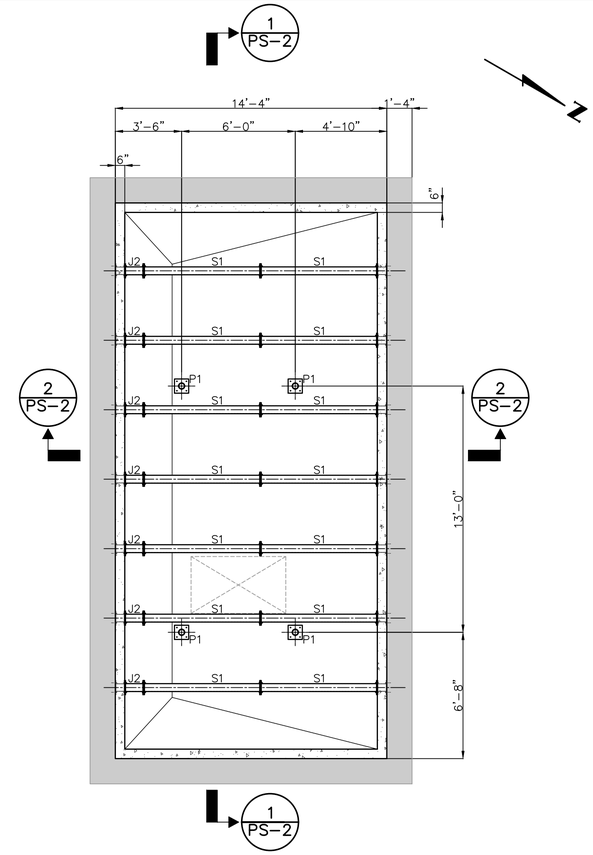
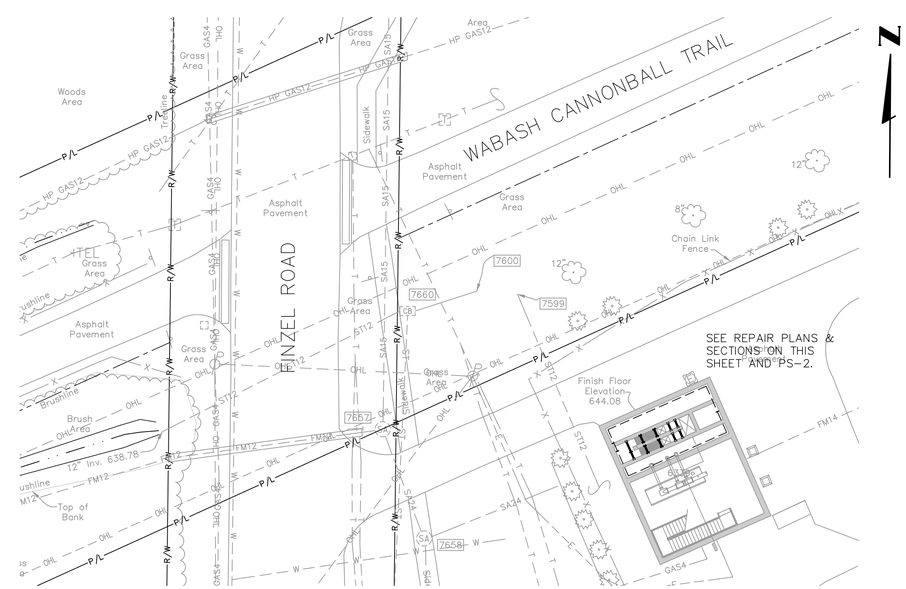


FLOOR PLAN @ EL. 614.00

¼"=1'-0"

STRUCTURAL SEQUENCE OF CONSTRUCTION:

1. REMOVE CHANNEL GRATING AS REQUIRED TO INSTALL J1 JACKS.
2. JACK J1 STRUTS SNUG TIGHT TO WALL, SO THAT NO WALL MOVEMENT CAN OCCUR AT STRUT ENDS. DO NOT EXERT EXCESSIVE FORCE ON STRUTS TO AVOID CRACKING WALL OR FLOOR.
3. CORE DRILL SLAB AT LOCATIONS INDICATED ON DRAWINGS. MEASURE DEPTH OF CORES. MEASURE SIZE AND LOCATION OF REBAR FROM SIDE OF CORE. ONCE MEASUREMENTS HAVE BEEN COMPLETED, SEND SIDE PHOTOS OF CORES TO ENGINEER, THEN SEND SAMPLES OF CORES TO TESTING LABORATORY FOR COMPRESSION TESTS. COORDINATE SIZE OF CORE WITH LAB.
4. DO NOT PROCEED WITH WORK UNTIL DIRECTED BY ENGINEER. COORDINATE TIMING OF CORING WITH ENGINEER TO EXPEDITE DIRECTION TO PROCEED.
5. ONCE DIRECTED TO PROCEED, INSTALL P1 POSTS FIRST, THEN INSTALL J2 WALL STRUTS AND JACKS. SOFT CONCRETE UNDER JACK AND STRUT BEARING PLATES SHALL BE REMOVED TO CREATE A FLAT AND SOLID SURFACE TO BEAR ON.
6. JACK J2 STRUTS SNUG TIGHT TO WALL, SO THAT NO WALL MOVEMENT CAN OCCUR AT STRUT ENDS. DO NOT EXERT EXCESSIVE FORCE ON STRUTS TO AVOID CRACKING WALL.
7. PRESSURE WASH WALLS TO REMOVE ALL COATINGS, DIRT AND OILS.
8. TEST WALL STRENGTH USING WINDSOR PROBES, WHERE INDICATED ON DRAWINGS, AND PROVIDE TEST RESULTS TO ENGINEER. TEST RESULTS SHALL BE CALIBRATED BY LAB TO CORRESPOND TO CONCRETE PROPERTIES PER MANUFACTURER'S RECOMMENDATIONS. DO NOT PROCEED WITH WORK UNTIL DIRECTED BY ENGINEER. COORDINATE TIMING OF PROBE TESTING WITH ENGINEER TO EXPEDITE DIRECTION TO PROCEED.
9. ABRASIVE BLAST OR HIGH PRESSURE WATER BLAST WALLS TO OPEN CONCRETE POURS AND TO REMOVE SOFT AND LOOSE CONCRETE FROM CEILING. DO NOT REMOVE MORE THAN 8" OF CONCRETE FROM CEILING OR 1 1/2" FROM WALLS. IF CONCRETE UNDER THE MAXIMUM DEPTHS OF REMOVAL APPEAR SOFT, NOTIFY ENGINEER.
10. INSTALL WALL REINFORCING AND APPLY SHOTCRETE TO ALL WALLS PRIOR TO CEILING.
11. INSTALL CEILING REINFORCING AND APPLY SHOTCRETE TO CEILING. FILL CORE HOLES AT THIS TIME
12. REMOVE WALL STRUT SHORING ONCE SHOTCRETE HAS REACHED 3000 PSI COMPRESSIVE STRENGTH. PRIOR TO REMOVING THE STRUTS, ALL LAB TEST RESULTS SHALL INDICATE THAT THE CONCRETE HAS REACHED 3000 PSI COMPRESSIVE STRENGTH AT SEVEN DAYS. SIX STRENGTH TESTS (MINIMUM OF 3 CYLINDERS EACH) SHALL BE PERFORMED, TWO FROM CEILING, TWO FROM NORTH WALL AND TWO FROM SOUTH WALL.
13. SOLID GROUT WALL STRUT STUBS WITH NON-SHRINK GROUT
14. REMOVE J1 JACKS AND REPLACE CHANNEL GRATING.



FINZEL ROAD PUMP STATION SITE PLAN

1"=20'

FINZEL ROAD PUMP STATION
REHABILITATION FLOOR PLANS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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TOL-7448002PS-REHABILITATION FLOOR PLANS
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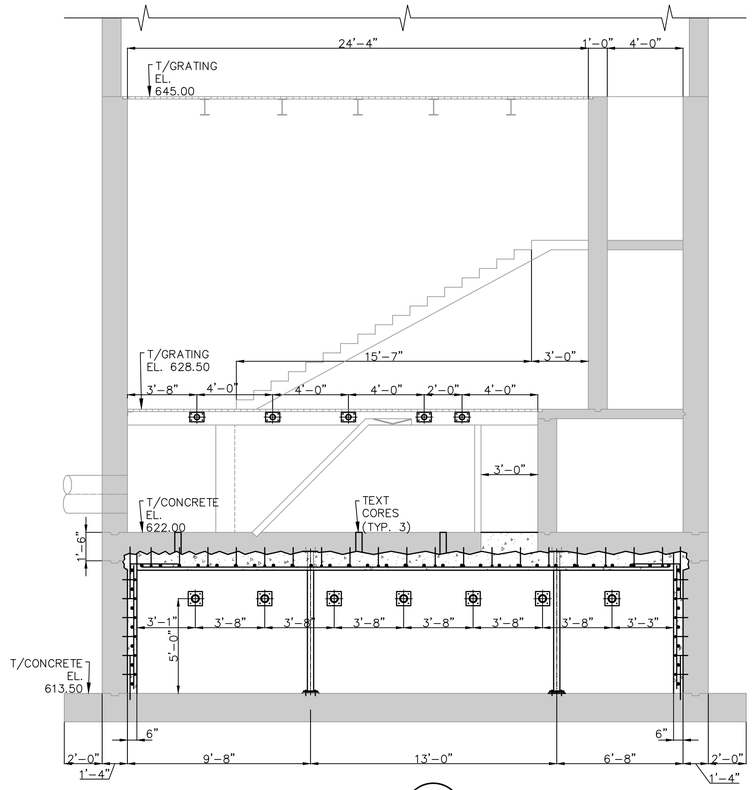
9/25/2020 9:55 AM



SECTION 1/PS-2
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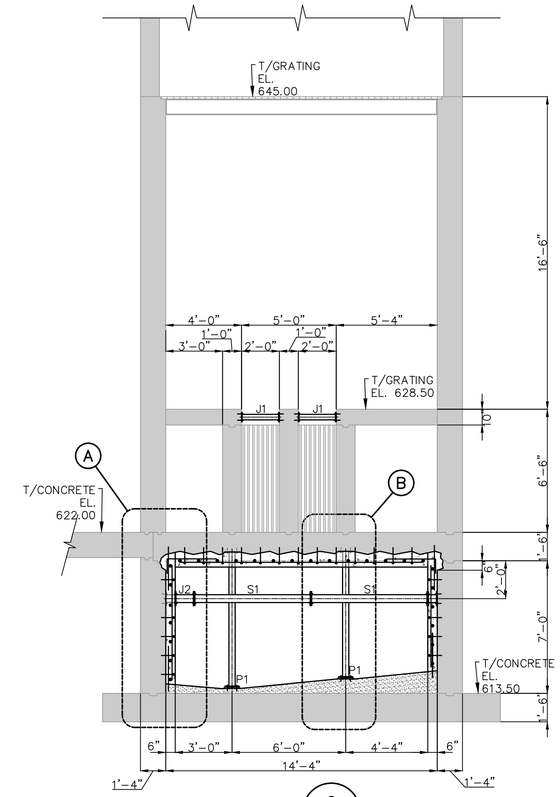
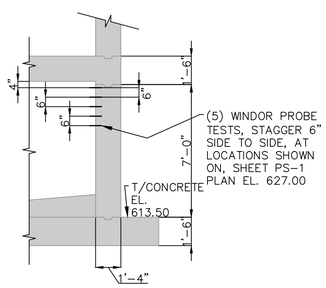


SECTION 2/PS-2
¼"=1'-0"

GENERAL NOTES:

1. REFER TO SPECIFICATION 01043 FOR SEQUENCE OF CONSTRUCTION.
2. TEE ANCHORS SHALL BE ¼"ø T SHAPED RODS OF ANSI TYPE 304 STAINLESS STEEL.
3. HOHMANN & BERNARD, INC. "#423 STONE ANCHORS" OR EQUAL. EMBED ANCHORS 2½" TO EXISTING CONCRETE AND SECURE WITH ADHESIVE (HILTI RE-500 OR EQUAL).
4. WIRE TIE WALL AND CEILING REINFORCING BARS TO THE TEE ANCHORS.



WINDSOR PROBE TEST DETAIL
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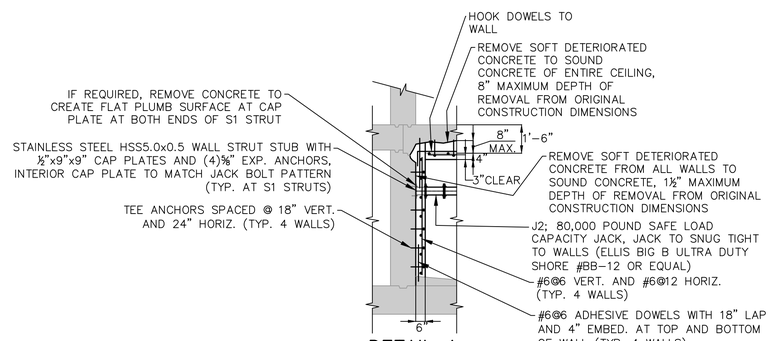

DETAIL A
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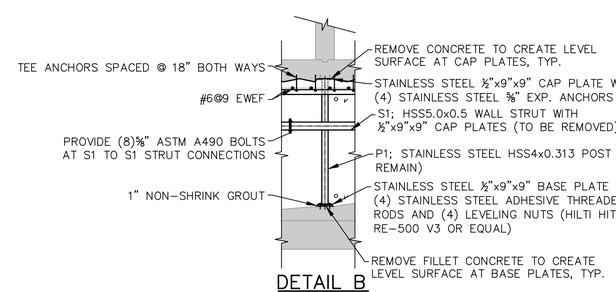

DETAIL B
¾"=1'-0"

FINZEL ROAD PUMP STATION
STRUCTURAL SECTIONS AND DETAILS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

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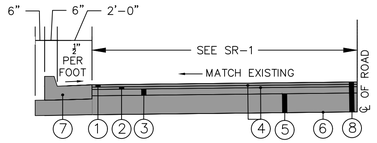
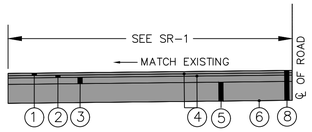
PS-2
29 OF 39

TGL-7448002PS-STRUCTURAL SECTIONS AND DETAILS
PS1-2020-9.56.AM-A.MITCHELL
9/25/2020 9:56 AM



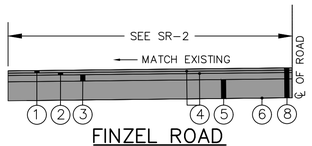
LOGAN STREET & FIELD AVENUE PAVEMENT SECTION

NTS



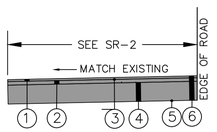
CEMETERY ROAD PAVEMENT SECTION

NTS



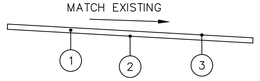
FINZEL ROAD PAVEMENT SECTION

NTS



WABASH CANNONBALL TRAIL PAVEMENT SECTION

NTS

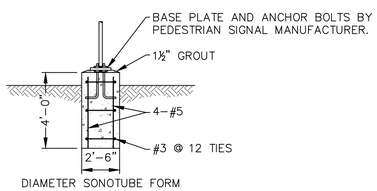


1. 1½" ODOT ITEM 254 PAVEMENT PLANING
2. ODOT ITEM 407 TACK COAT (0.09 GAL/SY)
3. 1½" ODOT ITEM 441 SURFACE COURSE TYPE 1 P6-64-22 (448)

CEMETERY ROAD PAVEMENT PLANING TYPICAL SECTION

NTS

NOTES:
1. AREAS MARKED FOR PAVEMENT PLANING ARE INTENDED TO BE RESURFACED TO MATCH EXISTING GRADES.



PEDESTRIAN SIGNAL POLE BASE DETAIL

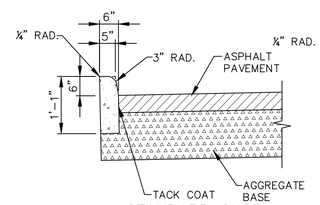
NTS

LEGEND
(LOGAN STREET, FIELD AVENUE, CEMETERY ROAD AND FINZEL ROAD)

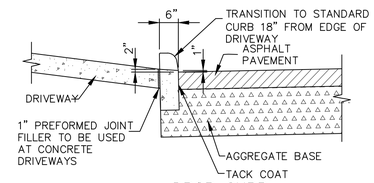
1. ODOT ITEM 441 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 PG 64-22 (448)
2. ODOT ITEM 441 1 ½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 PG 64-22 (448)
3. ODOT ITEM 301 3" ASPHALT CONCRETE BASE
4. ODOT ITEM 407 TACK COAT (0.05 GAL/SY)
5. ODOT ITEM 304 12" AGGREGATE BASE
6. ODOT ITEM 204 SUBGRADE COMPACTION
7. ODOT ITEM 609 COMBINATION CURB AND GUTTER, TYPE 2
8. ODOT ITEM 202 PAVEMENT AND BASE REMOVED

(WABASH CANNONBALL TRAIL)
SEE CS-1 FOR CROSS SECTIONS

1. ODOT ITEM 441 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 PG 64-22 (448)
2. ODOT ITEM 441 2 ½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 PG 64-22 (448)
3. ODOT ITEM 407 TACK COAT (0.05 GAL/SY)
4. ODOT ITEM 304 12" AGGREGATE BASE
5. ODOT ITEM 204 SUBGRADE COMPACTION
6. ODOT ITEM 202 PAVEMENT AND BASE REMOVED



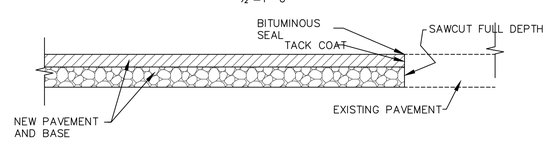
STANDARD CURB
(ODOT TYPE 2)



DROP CURB AT DRIVEWAYS

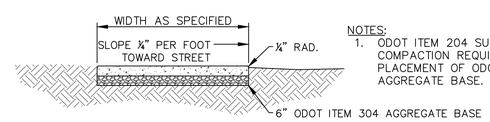
CURB DETAILS

½"=1'-0"



BUTT JOINT TRANSITION FOR PAVEMENT REPLACEMENT TO EXISTING PAVEMENT

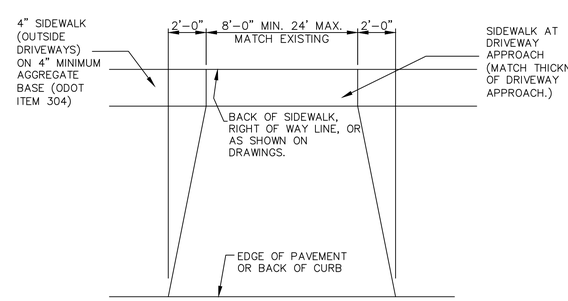
NTS



NOTES:
1. ODOT ITEM 204 SUBGRADE COMPACTION REQUIRED PRIOR TO PLACEMENT OF ODOT ITEM 304 AGGREGATE BASE.

4" CONCRETE SIDEWALK

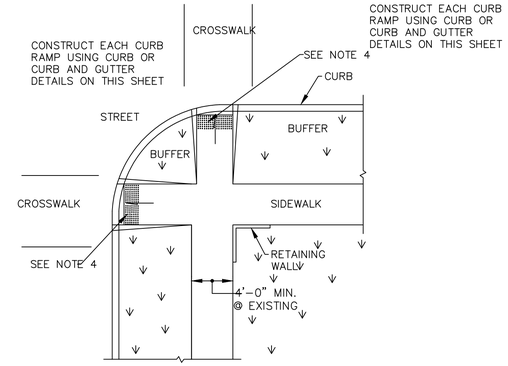
NTS



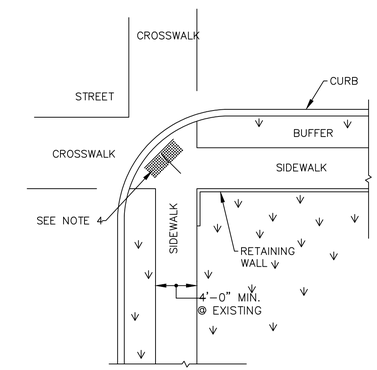
TYPICAL DRIVEWAY APPROACH

¼"=1'-0"

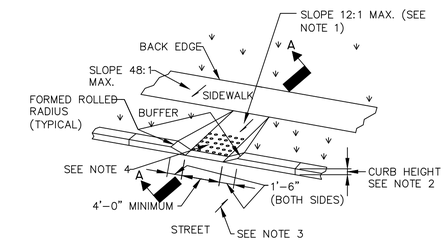
NOTES:
1. ALL DRIVES SHALL BE PLACED ON 6" ODOT ITEM 304.
2. ODOT ITEM 204 SUBGRADE COMPACTION REQUIRED PRIOR TO PLACEMENT OF ODOT ITEM 304 AGGREGATE BASE.
3. CONCRETE DRIVEWAY AND APPROACH SHALL BE 6" ODOT ITEM 452.
4. THE CONCRETE DRIVEWAY FOR THE FINZEL ROAD PUMP STATION SHALL BE 8" OF ODOT ITEM 452.



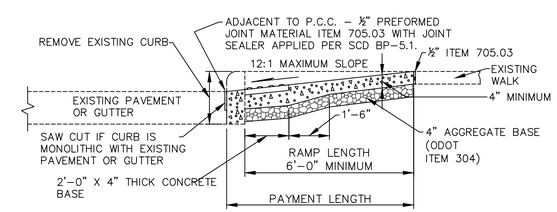
SEPARATE RAMPS AT INTERSECTION



COMBINED RAMPS AT INTERSECTION



PERPENDICULAR RAMPS



SECTION A–A CURB RAMP DETAIL

CURB RAMP DETAILS

NTS

NOTES:
1. THE SLOPE OF THE RAMP TOWARD THE CURB IS PREFERRED TO BE 12:1 OR FLATTER RELATED TO THE HORIZONTAL. IN EXISTING SIDEWALKS, IT MAY BE REDUCED AS FOLLOWS:
   A) 10:1 FOR A MAXIMUM RISE OF 6"
   B) 8:1 FOR A MAXIMUM RISE OF 3"
   C) 6:1 OVER A MAXIMUM 2'-0" FOR HISTORICAL AREAS WHERE A FLATTER SLOPE IS NOT FEASIBLE.
2. THE MINIMUM LENGTH OF PERPENDICULAR RAMP IS 6' FROM THE BACK OF A 6" CURB AND MAY BE INCREASED WHERE FEASIBLE TO OBTAIN A FLATTER RAMP SLOPE OR TO BETTER BLEND WITH THE WALK CONFIGURATION.
3. GUTTER COUNTER SLOPES AT THE FOOT OF PERPENDICULAR CURB RAMPS SHOULD NOT EXCEED 20:1 OVER A DISTANCE OF 2'-0" FROM THE CURB.
4. DETECTABLE WARNINGS (TRUNCATED DOMES) ARE TO BE INSTALLED IN THE LOCATION SHOWN. DIMENSIONS OF THE DOMES ARE 24" FROM THE BACK OF THE CURB BY THE WIDTH OF THE RAMP.
5. DETECTABLE WARNING DEVICES SHALL BE A CAST-IN-PLACE SYSTEM AS MANUFACTURED BY ARMOR-TILE TACTILE SYSTEMS, ADA SOLUTIONS OR APPROVED EQUAL. COLOR SHALL BE RED BRICK.

SURFACE RESTORATION DETAILS
VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
-	-	-	-

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JOB NO. 334-7448.002
SCALE 1" = 20'
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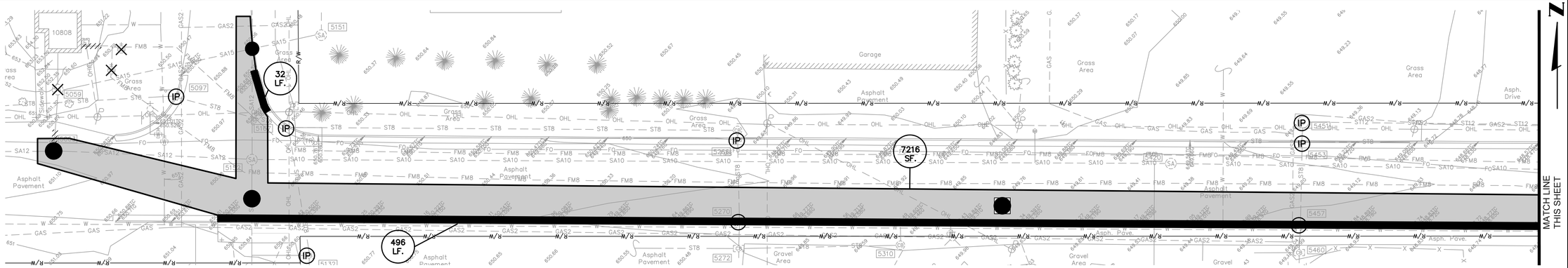
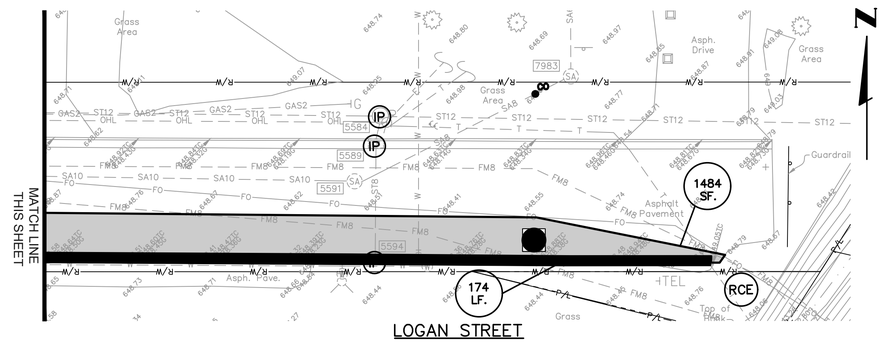
DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020
SHEET NO.
SR-0.1
30 OF 39

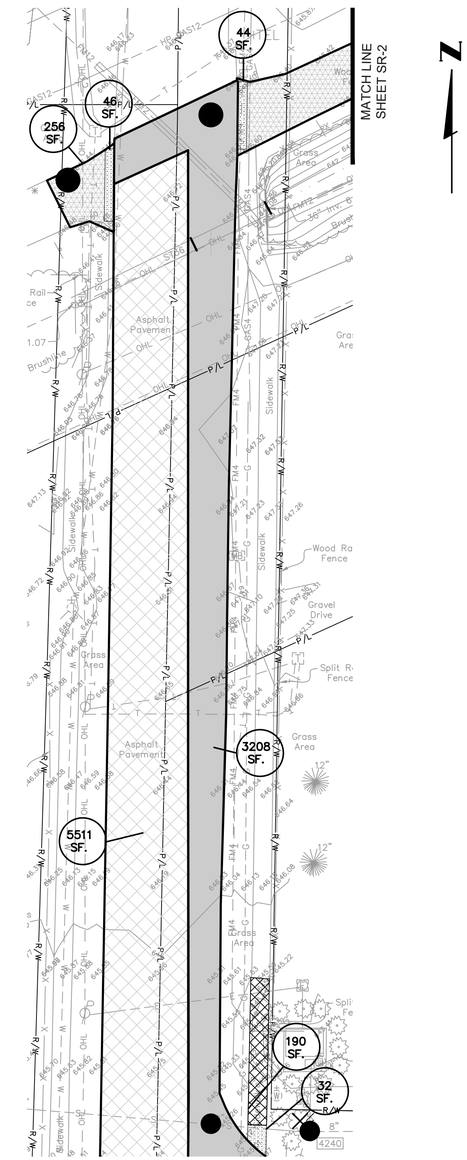
TOL-7448028R-SURFACE RESTORATION DETAILS
TUE, 9/22/2020 4:46 PM, A.MITCHELL
9/25/2020 9:56 AM



LOGAN STREET AND FIELD AVENUE



LOGAN STREET



CEMETERY ROAD AND WABASH CANNONBALL TRAIL

LEGEND

- ROADWAY ASPHALT-PAVEMENT, SEE TYPICAL SECTION ON SHEET SR-0.1
- TRAIL ASPHALT-PAVEMENT, SEE TYPICAL SECTION ON SHEET SR-0.1 & CROSS SECTIONS ON SHEET CS-1
- ASPHALT PAVEMENT PLANING & RESURFACING, SEE TYPICAL SECTION ON SHEET SR-0.1
- 8" CONCRETE DRIVE, SEE DETAIL ON SHEET SR-0.1
- 4" CONCRETE WALK, SEE DETAIL ON SHEET SR-0.1
- 6" OR 8" CURB RAMP WITH DETECTABLE WARNING, SEE DETAIL ON SHEET SR-0.1
- CURB AND GUTTER TYPE 2, SEE DETAIL ON SHEET SR-0.1
- IP — INLET PROTECTION, SEE DETAIL ON SHEET EC-2
- RCE — ROADWAY CONSTRUCTION ENTRANCE, SEE DETAIL ON SHEET EC-2

NOTE:
THE LIMITS OF THE REQUIRED SURFACE REPAIRS ASSOCIATED WITH THE WORK IMPROVEMENTS ARE SHOWN ON THIS SHEET. THE LIMITS FOR SURFACE IMPROVEMENTS SHOWN ON THIS SHEET SHALL BE BASED UPON THE SPECIFIED PAY LIMITS EXCEPTING ADDITIONAL AREAS EXPANDED AS SHOWN. RESTORATION OF SURFACE FACILITIES DAMAGED BEYOND THESE LIMITS SHOWN SHALL NOT BE INCLUDED FOR PAYMENT UNLESS APPROVED BY THE ENGINEER.

FIELD AVENUE, LOGAN STREET AND WABASH CANNONBALL TRAIL SURFACE RESTORATION PLANS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
5			
4			
3			
2			
1			

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DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID

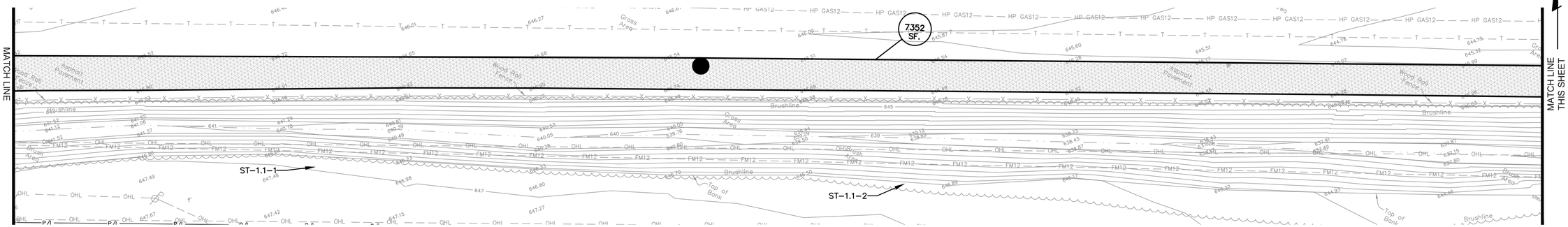
DATE: SEPTEMBER 2020

SHEET NO.

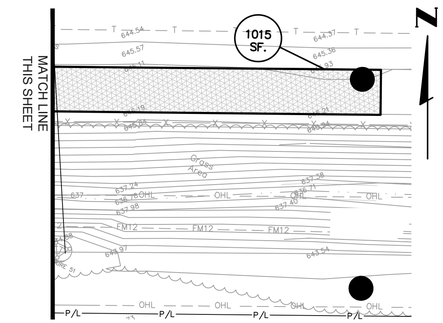
SR-1

31 OF 39

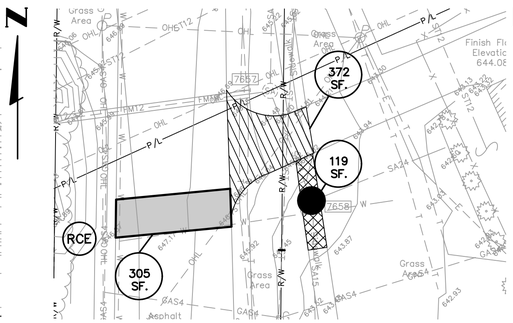
TOL-7448028SR-SURFACE RESTORATION I
TS: 2020-24 JOB: 2020-24 AMITCHELL
9/25/2020 9:56 AM



WABASH CANNONBALL TRAIL



WABASH CANNONBALL TRAIL



FINZEL ROAD

LEGEND

- ROADWAY ASPHALT–PAVEMENT, SEE TYPICAL SECTION ON SHEET SR–0.1
- TRAIL ASPHALT–PAVEMENT, SEE TYPICAL SECTION ON SHEET SR–0.1 & CROSS SECTIONS ON SHEET CS–1
- ASPHALT PAVEMENT PLANING & RESURFACING, SEE TYPICAL SECTION ON SHEET SR–0.1
- 8" CONCRETE DRIVE, SEE DETAIL ON SHEET SR–0.1
- 4" CONCRETE WALK, SEE DETAIL ON SHEET SR–0.1
- 6" OR 8" CURB RAMP WITH DETECTABLE WARNING, SEE DETAIL ON SHEET SR–0.1
- CURB AND GUTTER TYPE 2, SEE DETAIL ON SHEET SR–0.1
- (P) INLET PROTECTION, SEE DETAIL ON SHEET EC–2
- (RCE) ROADWAY CONSTRUCTION ENTRANCE, SEE DETAIL ON SHEET EC–2

NOTE:
THE LIMITS OF THE REQUIRED SURFACE REPAIRS ASSOCIATED WITH THE WORK IMPROVEMENTS ARE SHOWN ON THIS SHEET. THE LIMITS FOR SURFACE IMPROVEMENTS SHOWN ON THIS SHEET SHALL BE BASED UPON THE SPECIFIED PAY LIMITS EXCEPTING ADDITIONAL AREAS EXPANDED AS SHOWN. RESTORATION OF SURFACE FACILITIES DAMAGED BEYOND THESE LIMITS SHOWN SHALL NOT BE INCLUDED FOR PAYMENT UNLESS APPROVED BY THE ENGINEER.

WABASH CANNONBALL TRAIL AND FINZEL ROAD SURFACE RESTORATION PLANS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
5			
4			
3			
2			
1			

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JOB NO. 334-7448.002

SCALE 1" = 20'

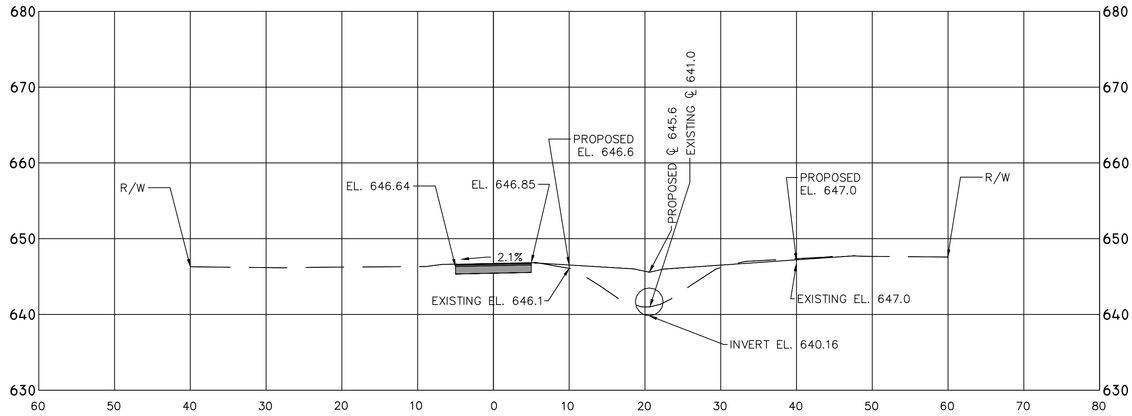
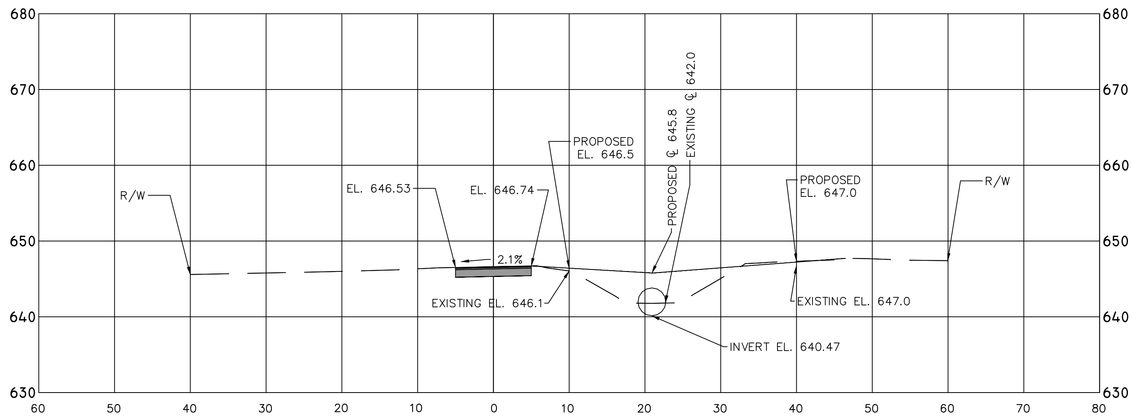
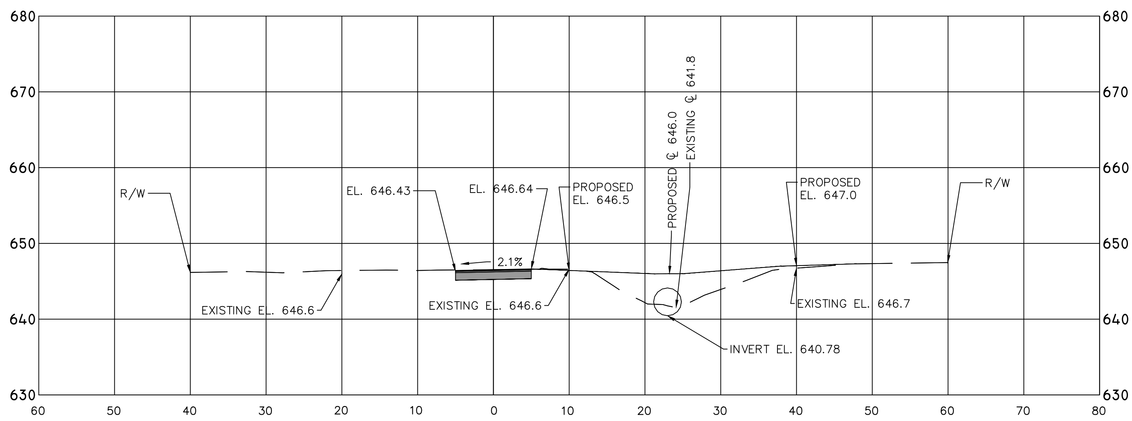
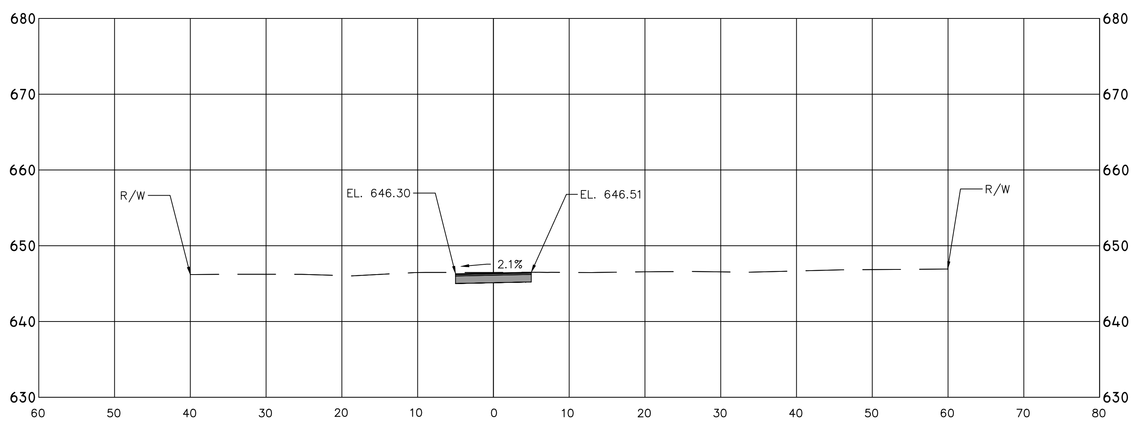
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020

SHEET NO.
SR-2
32 OF 39

TOL-7448002SR-SURFACE RESTORATION 2
TS:7/09/2015 4:04 PM JAMITCHELL
9/25/2020 9:56 AM

Area Sq.Yd. Seed	End Width Ft. Seed		End Area Sq. Ft. Cut	End Area Sq. Ft. Fill	Volume Cu. Yd. Cut	Volume Cu. Yd. Fill
	90	 STA. 46+16	14	52		
500					27	101
	90	 STA. 45+66	15	57		
500					25	106
	90	 STA. 45+16	12	57		
500					10	53
	90	 STA. 44+66	0	0		
1,500		Sheet Total			62	260

NOTE:
1. FILL QUANTITIES DO NOT INCLUDE PIPE BEDDING MATERIAL FOR RCP PIPE AS REQUIRED BY TYPICAL TRENCH DETAILS.
2. SEEDING QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SEE SPECIFICATION SECTION 01010

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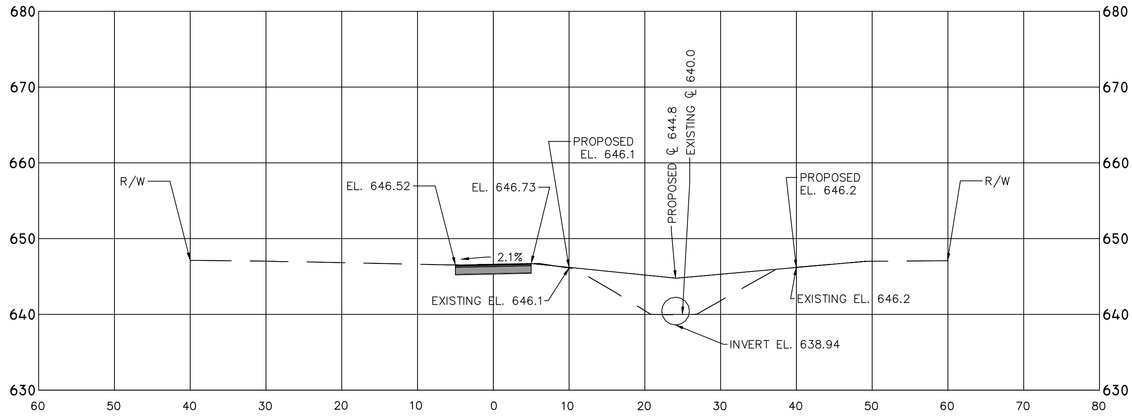
JOB NO. 334-7448.002
SCALE 1" = 10'
DESIGNED AMM
DRAWN AMM
REVIEWED TAB
THIS LINE SCALE 1" WHEN PLOTTED TO NOTED SCALE
STATUS ISSUED FOR BID
DATE SEPTEMBER 2020
SHEET NO. CS-1
33 OF 39

NO. DATE REVISIONS AFTER ISSUED FOR BID BY

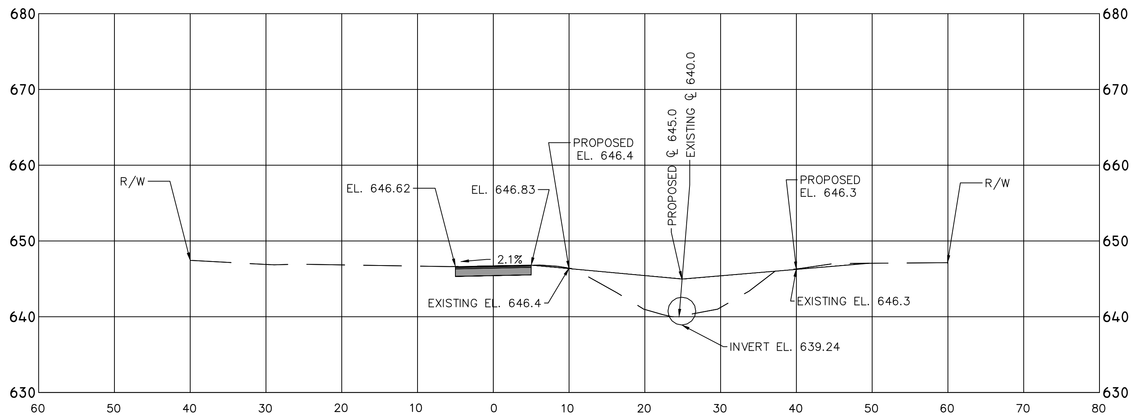
WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 44+66 TO 46+16

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

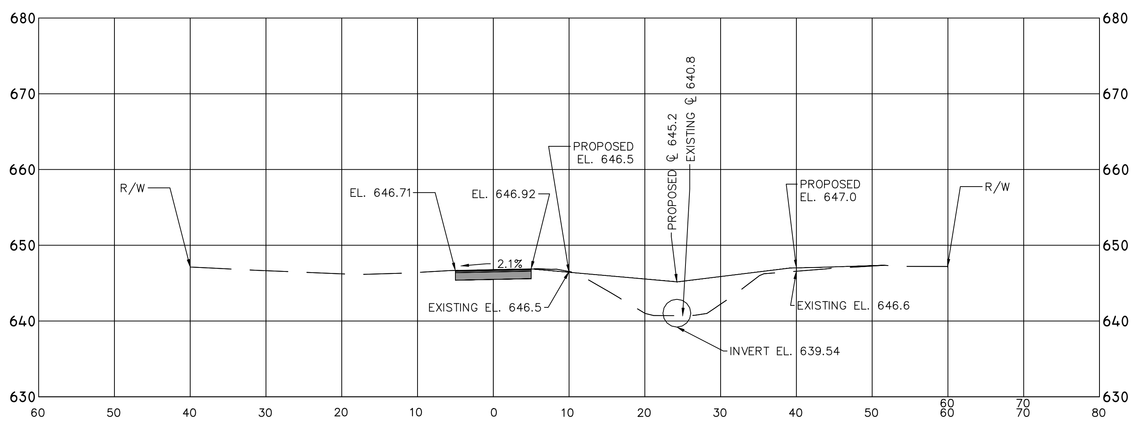
Area Sq.Yd. Seed	End Width Ft. Seed		End Area Sq. Ft. Cut	End Area Sq. Ft. Fill	Volume Cu. Yd. Cut	Volume Cu. Yd. Fill
	90	STA. 48+16	12	75		
500					24	141
	90	STA. 47+66	14	77		
500					25	140
	90	STA. 47+16	13	74		
500					24	129
	90	STA. 46+66	13	65		
500					25	108
2,000		Sheet Total			98	518



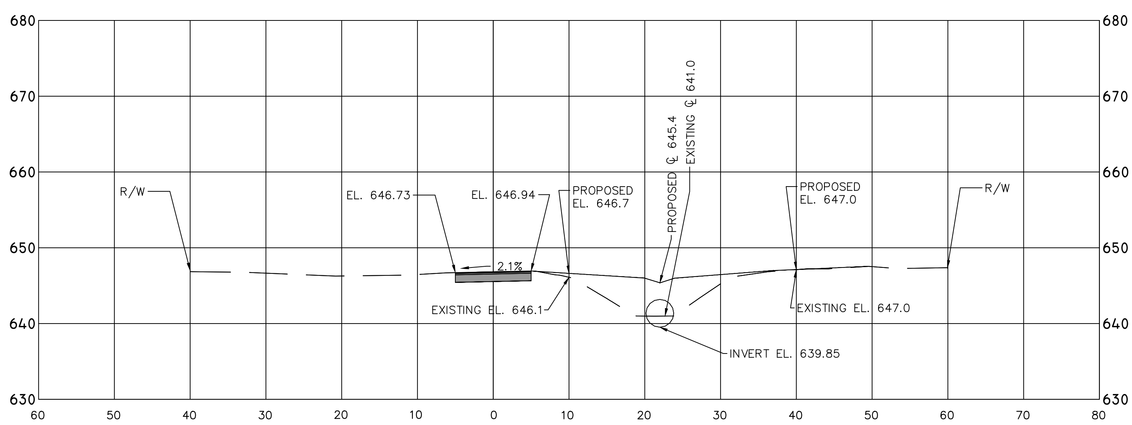
STA. 48+16



STA. 47+66



STA. 47+16



STA. 46+66

NOTE:
1. FILL QUANTITIES DO NOT INCLUDE PIPE BEDDING MATERIAL FOR RCP PIPE AS REQUIRED BY TYPICAL TRENCH DETAILS.
2. SEEDING QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SEE SPECIFICATION SECTION 01010

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SCALE 1" = 10'

DESIGNED AMM
DRAWN AMM
REVIEWED TAB
PLOT DATE: 9/25/2020
PLOTTED TO NOTED SCALE

STATUS ISSUED FOR BID
DATE SEPTEMBER 2020

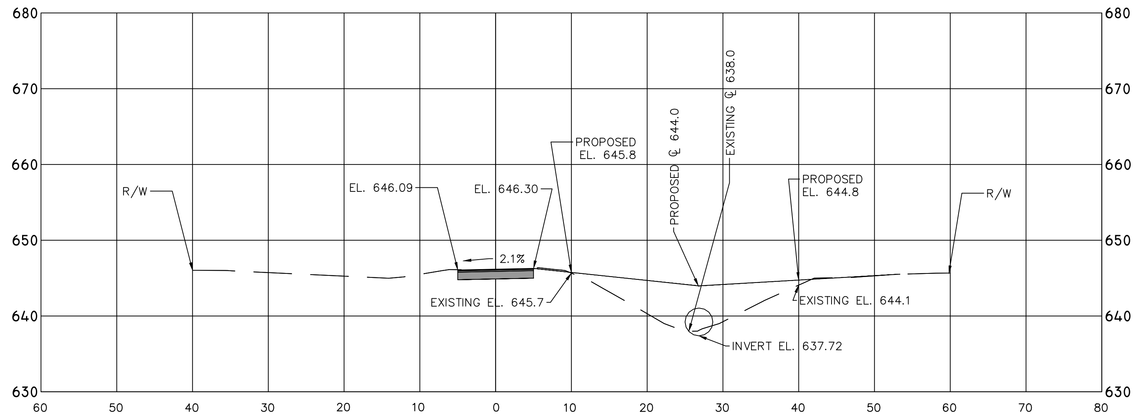
SHEET NO. CS-2
34 OF 39

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY

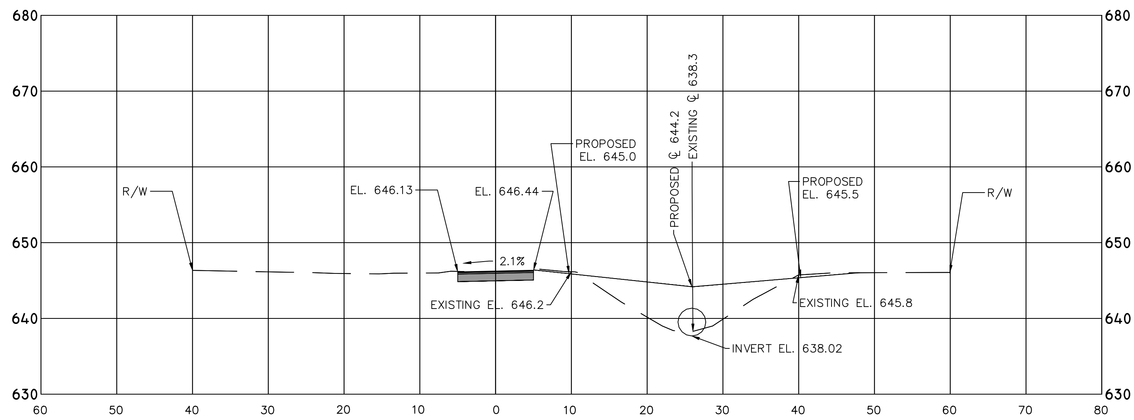
WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 46+66 TO 48+16

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

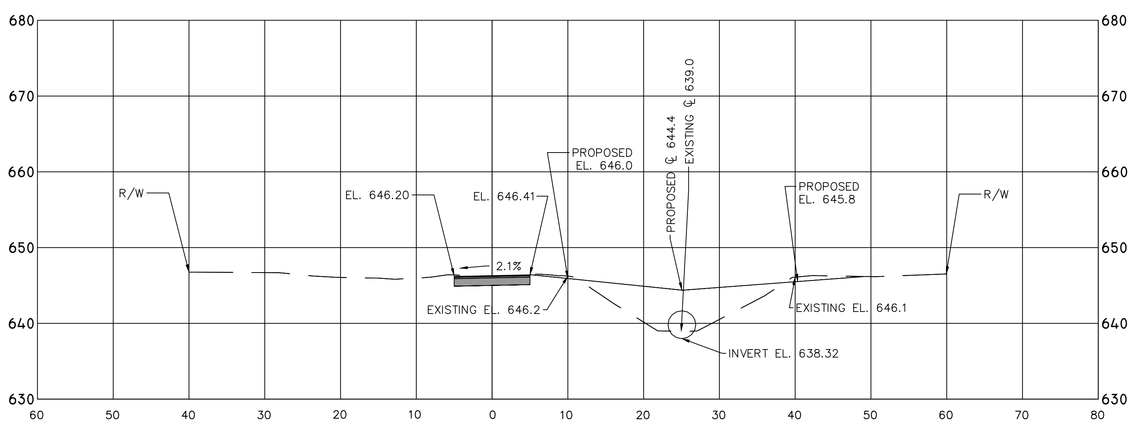
Area Sq.Yd. Seed	End Width Ft. Seed		End Area Sq. Ft. Cut	End Area Sq. Ft. Fill	Volume Cu. Yd. Cut	Volume Cu. Yd. Fill
639	140	STA. 50+16	10	95	20	169
500	90	STA. 49+66	12	88	26	160
500	90	STA. 49+16	16	85	25	150
500	90	STA. 48+66	11	77	21	141
2,139		Sheet Total			92	620



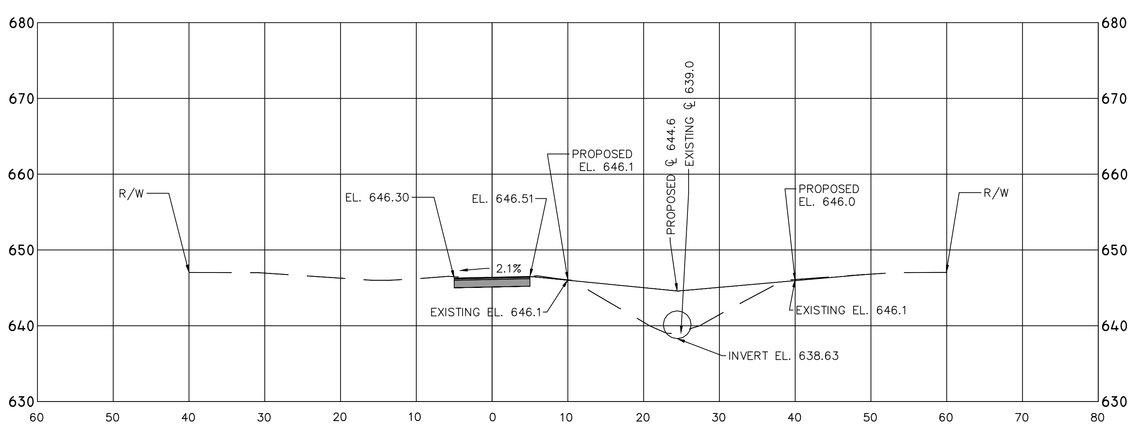
STA. 50+16



STA. 49+66



STA. 49+16



STA. 48+66

NOTE:
1. FILL QUANTITIES DO NOT INCLUDE PIPE BEDDING MATERIAL FOR RCP PIPE AS REQUIRED BY TYPICAL TRENCH DETAILS.
2. SEEDING QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SEE SPECIFICATION SECTION 01010

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JOB NO. 334-7448.002

SCALE 1" = 10'

DESIGNED AMM
DRAWN AMM
REVIEWED TAB
PLOT DATE: 9/25/2020
THIS LINE SCALE 1" WHEN PLOTTED TO NOTED SCALE

STATUS ISSUED FOR BID
DATE SEPTEMBER 2020

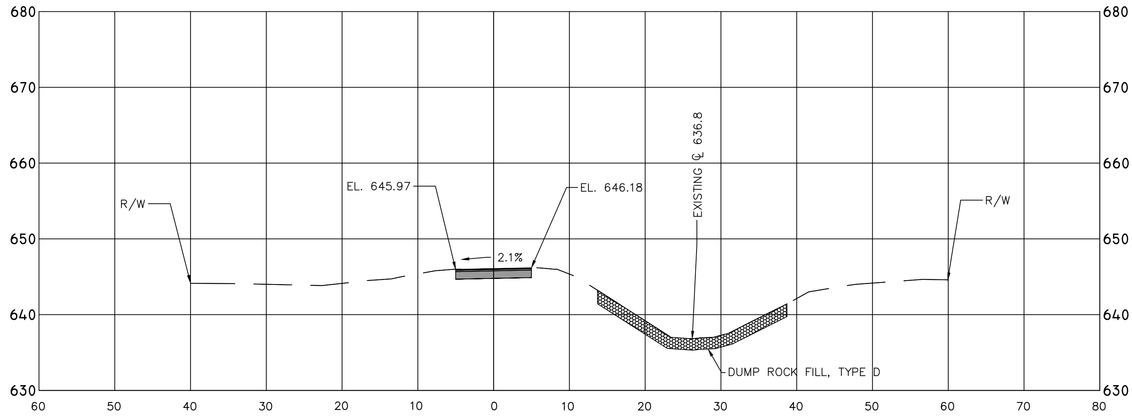
SHEET NO. CS-3
35 OF 39

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY

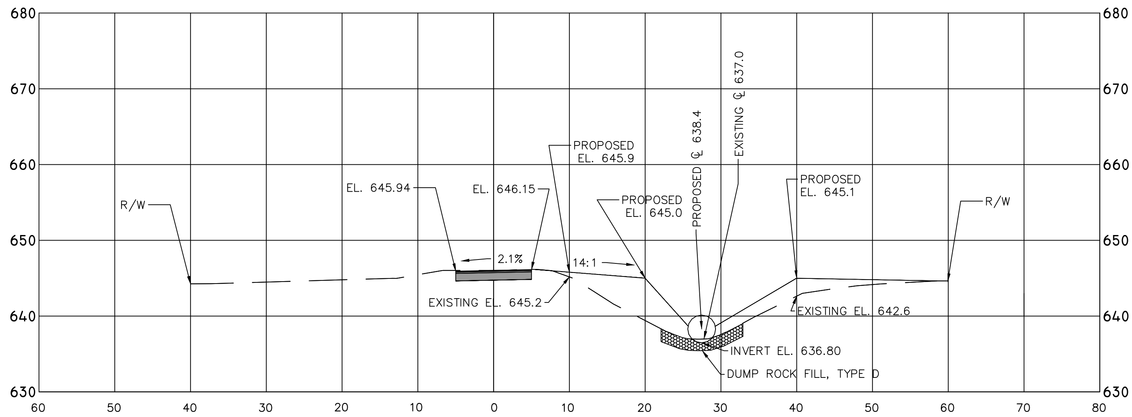
WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 48+66 TO 50+16

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

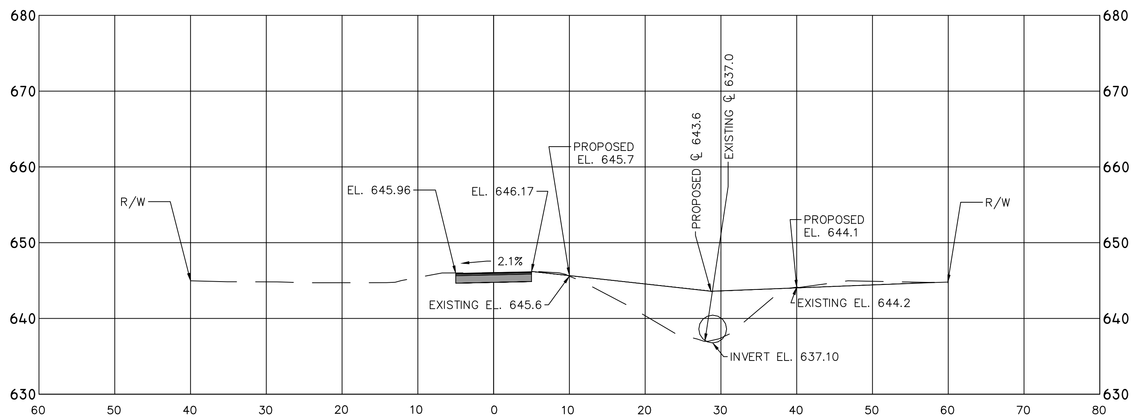
Area Sq.Yd. Seed	End Width Ft. Seed		End Area Sq. Ft. Cut	End Area Sq. Ft. Fill	Volume Cu. Yd. Cut	Volume Cu. Yd. Fill
	140	STA. 52+85	42	0		
622					85*	25*
	140	STA. 51+66	8	91		
777					26*	171*
	140	STA. 51+16	15	97		
777					46	193
	140	STA. 50+66	10	111		
777					19	191
2,953		Sheet Total			176	578



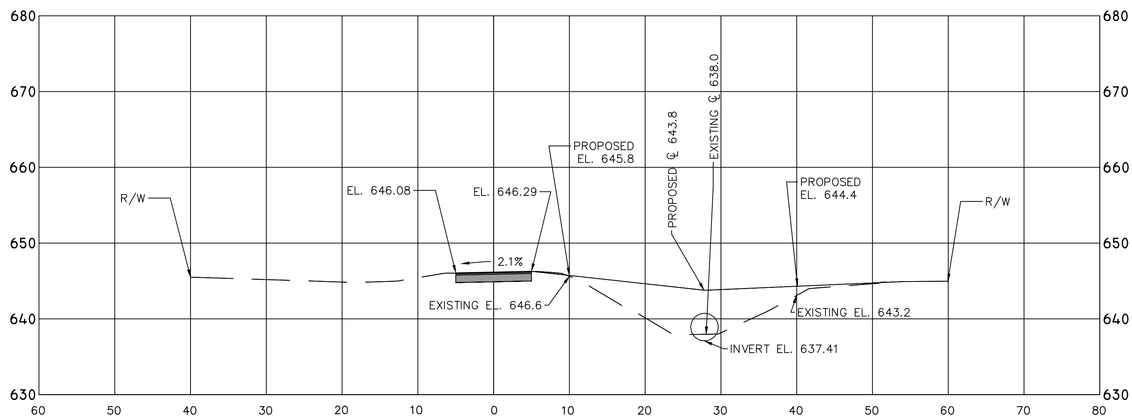
STA. 52+85



STA. 51+66



STA. 51+16



STA. 50+66

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* VOLUMES CALCULATED BASED ON MEASUREMENTS FROM SHEET ST-1.2

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STATUS ISSUED FOR BID
DATE SEPTEMBER 2020

SHEET NO. CS-4
36 OF 39

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY

WCT PAVEMENT & DITCH ENCLOSURE CROSS SECTIONS STA. 50+66 TO 52+85

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

EROSION AND SEDIMENTATION CONTROL

1. EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSTALLED TO NATURAL RESOURCES CONSERVATION SERVICE OR EQUIVALENT STANDARDS AND SPECIFICATIONS FOR PARTICULAR TECHNIQUES. THE PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
2. CLEARING AND GRUBBING SHALL NOT COMMENCE UNTIL THE CONTRACTOR IS PREPARED TO START CONSTRUCTION.
3. SEDIMENT BASINS AND DIVERSION DIKES SHALL BE CONSTRUCTED BEFORE DISTURBING THE LAND THAT DRAINS INTO THEM.
4. DIVERSION CHANNELS SHALL BE CONSTRUCTED AROUND THE CONSTRUCTION SITE TO COLLECT RUNOFF AND PREVENT SILT AND OTHER ERODED MATERIALS FROM ENTERING LOCAL DRAINAGE COURSES. DIVERSION CHANNELS SHALL BE STABILIZED BY SEEDING OR RIP-RAP OR LINED WITH PLASTIC, AND FLOW TO TEMPORARY SILT BASINS.
5. EXISTING TOPSOIL THAT IS TO BE REUSED SHALL BE STOCKPILED AND REPLACED UPON FINAL GRADING. STOCKPILED TOPSOIL SHALL BE PROTECTED WITH SILT BARRIERS AND TEMPORARY SEEDING OR A COVERING SUCH AS ANCHORED STRAW MULCH.
6. EXCESS SOIL THAT IS STOCKPILED SHALL BE EITHER REMOVED OR PERMANENTLY STABILIZED WITHIN 15 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPHILL SIDE OF TRENCHES.
8. ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED FOR CONSTRUCTION MAY BE REMOVED; PROTECT THE REST TO PRESERVE THEIR AESTHETIC, HABITAT, AND EROSION CONTROL VALUES.
9. DISTURBED LAND EXPOSED LONGER THAN 15 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING AND MULCHING OR MULCHING ALONE.
10. AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE EACH DISTURBED AREA WITH PERENNIAL VEGETATION. IF FINAL GRADING AND SEEDING WILL NOT OCCUR WITHIN 30 DAYS, ALL DISTURBED AREAS SHALL BE TEMPORARILY SEEDED AND/OR MULCHED IMMEDIATELY.
11. FINAL GRADING SHALL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
12. NO MORE THAN 200 FEET OF TRENCH SHALL BE OPEN AT ANY TIME. MINIMIZE THE AREA DISTURBED FOR TRENCH OPENING, LAYING OF PIPE, AND BACKFILLING.
13. TRENCHES SHALL BE BACKFILLED IMMEDIATELY; COMPACT AND SEED AND/OR MULCH TRENCHES IN UNPAVED AREAS WITHIN 15 DAYS AFTER THEY HAVE BEEN OPENED.
14. LARGE-SCALE CONSTRUCTION SHALL BE RESEEDED IN STAGES TO PREVENT EROSION WHEN SEASONAL CONDITIONS PERMIT. WITHIN 15 DAYS AFTER A SPAN HAS BEEN COMPLETED, THE CONTRACTOR SHALL PLACE ALL TOPSOIL, FINE GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THAT SECTION OF PIPE.
15. SLOPES EXCEEDING 15 PERCENT OR TENDING TO BE UNSTABLE SHALL BE STABILIZED WITH WATER DIVERSION BERMS, SODDING, OR THE USE OF JUTE OR EXCELSIOR BLANKETS.
16. WHEN BORROW MATERIAL IS OBTAINED FROM OTHER THAN COMMERCIAL SOURCES, CONTROL EROSION OF THE BORROW SITE DURING AND AFTER THE WORK TO PREVENT SEDIMENT FROM ENTERING STREAMS OR OTHER WATER BODIES. WASTE OR DISPOSAL AREAS AND CONSTRUCTION ROADS SHALL BE LOCATED AND CONSTRUCTED IN A MANNER THAT SHALL KEEP SEDIMENT FROM ENTERING STREAMS.
17. UNPAVED AREAS SHALL BE WET DOWN AS NECESSARY USING WATER OR OTHER ENVIRONMENTALLY BENIGN SUBSTANCE DURING CONSTRUCTION TO MINIMIZE DUST.
18. IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE WORK. ALSO, WHEN SEASONAL CONDITIONS PERMIT AND THE SUSPENSION OF WORK IS EXPECTED TO EXCEED A PERIOD OF ONE MONTH, THE CONTRACTOR SHALL PLACE TOPSOIL, FINE GRADE, SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS LEFT EXPOSED WHEN WORK IS STOPPED.
19. WHEN WORKING ADJACENT TO A WATERWAY, THE CONTRACTOR SHALL MAINTAIN A BUFFER ZONE OF UNDISTURBED VEGETATION BETWEEN THE WORK AREA AND THE WATERWAY. IF A BUFFER ZONE OF VEGETATION CANNOT PREVENT SILTATION OF THE WATERWAY, SILT BARRIERS SHALL ALSO BE INSTALLED BY THE CONTRACTOR IN THESE AREAS TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE WATERWAY.
20. MATERIAL EXCAVATED FROM BORING PITS (FOR JACK AND BORE LOCATIONS) SHALL BE SURROUNDED WITH SILT BARRIERS AT SUFFICIENT DISTANCE TO ENSURE THEIR INTEGRITY AND EFFECTIVENESS.
21. CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL, AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS, DRIVES, OR WALKS BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.
22. ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.

FLOODPLAINS / WETLANDS

1. WHEN PIPELINE CONSTRUCTION TAKES PLACE IN FLOODPLAINS AND WETLANDS, THE CONTRACTOR SHALL PLACE BULKHEADS OF CLAY SOIL ACROSS THE TRENCH AT 100 FOOT INTERVALS TO RESIST THE MOVEMENT OF GROUNDWATER THROUGH GRANULAR MATERIAL. SUCH BULKHEADS SHALL BE CAREFULLY COMPACTED AND SHALL EXTEND APPROXIMATELY 3 FEET IN A DIRECTION PARALLEL TO THE PIPE AND SHALL EXTEND FROM THE BOTTOM OF THE TRENCH TO A HEIGHT OF 6 INCHES ABOVE THE GROUNDWATER TABLE OR THE TOP OF THE GRANULAR FILL MATERIAL, WHICHEVER IS HIGHER.

TRAFFIC CONTROL

1. AT LEAST ONE LANE OF TRAFFIC SHALL BE MAINTAINED ALONG THE TRAVEL ROUTE TO THE CONSTRUCTION SITE.
2. ACCESS SHALL BE MAINTAINED FOR EMERGENCY VEHICLES AT ALL TIMES.
3. NO TRENCH SHALL BE LEFT OPEN AT THE END OF THE WORK DAY.
4. ANY CONSTRUCTION EQUIPMENT OR EXCAVATIONS NEAR ROADS SHALL BE MARKED WITH LIGHTS OR REFLECTORS.
5. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, WARNING SIGNS, DANGER SIGNALS, FLAGGERS, WATCHERS, AND ALL OTHER APPROPRIATE PRECAUTIONS NECESSARY TO THE PROTECTION OF THE WORK AND FOR SAFETY.
6. PRIOR TO CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE, OR BOULEVARD, THE CONTRACTOR SHALL HAVE CONSENT FROM LOCAL OFFICIALS AND THE ENGINEER.

AIR POLLUTION / NOISE CONTROL

1. CONSTRUCTION SHALL BE LIMITED TO DAYTIME HOURS.
2. CONSTRUCTION EQUIPMENT SHALL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS, AS REQUIRED BY SAFETY STANDARDS.
3. ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH PROPER EMISSIONS CONTROL EQUIPMENT.
4. ALL EQUIPMENT AND MACHINERY SHALL BE MAINTAINED TO MINIMIZE EXHAUST EMISSIONS AND NOISE.

TREES / VEGETATION PROTECTION

1. TREE REMOVAL SHALL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION AND SHALL BE LIMITED TO THE PERMANENT EASEMENT UNLESS EXPLICITLY PERMITTED BY THE ENGINEER.
2. NO TREE REMOVAL SHALL BE PERMITTED OUTSIDE THE TEMPORARY EASEMENT WITHOUT PERMISSION OF THE ENGINEER.
3. TREES WHICH ARE NOT TO BE REMOVED SHALL BE PROTECTED FROM INJURY BY TREES BEING FELLED.
4. PRIOR TO CLEARING, THE CONTRACTOR AND ENGINEER SHALL WALK THE ACQUIRED EASEMENTS AND DESIGNATE THE TREES THAT ARE TO BE SAVED. TREES TO BE SAVED SHALL BE CLEARLY MARKED BY PAINT WITH THE LETTER "S". TREES TO BE PROTECTED BY AN APPROPRIATE BARRIER SHALL BE MARKED WITH A "S" ENCLOSED ON A CIRCLE.
5. SOIL AND OTHER MATERIAL SHALL NOT BE STORED NEXT TO OR WITHIN THE DRIP-LINE OF TREES.
6. PRESERVATION OF LANDSCAPING SHOULD TAKE PRECEDENCE OVER REMOVAL. IF REMOVAL OR DAMAGE IS UNAVOIDABLE, EXISTING VEGETATION SHALL BE REPAIRED OR REPLACED "IN-KIND" UNLESS THE LAND OWNER SPECIFIES OTHERWISE.
7. IF TREES/SHRUBS CANNOT BE REPLACED IN THE SAME LOCATION DUE TO INSTALLATION OF THE WATER OR SEWER LINES, RELOCATION OF THE TREES/SHRUBS SHALL BE CONSIDERED.
8. THE CONTRACTOR SHALL REPAIR ALL INJURIES TO BARK, TRUNKS, LIMBS, AND ROOTS OF REMAINING VEGETATION BY PROPERLY DRESSING, CUTTING, AND BRACING, USING ONLY APPROVED TREE SURGERY METHODS, TOOLS, AND MATERIALS. WHEN ROOTS ARE DAMAGED DURING EXCAVATION, THE ABOVE-GROUND PORTION OF THE TREE SHALL BE PRUNED TO COMPENSATE.
9. SELECTIVE PRUNING OF TREE LIMBS PRIOR TO CONSTRUCTION SHALL ONLY BE DONE WITHIN ESTABLISHED EASEMENTS WHERE REMOVAL IS NECESSARY FOR OPERATION OF EQUIPMENT.
10. LIMIT THE USE OF RIP-RAP TO AREAS WHERE STREAM FLOW CONDITIONS PRECLUDE VEGETATIVE STABILIZATION.

DEWATERING

1. ALL DEWATERING FLOWS SHALL BE SETTLED IN SILTATION BASINS OR DIRECTED THROUGH FILTERING DEVICES BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS, NOT ONTO EXPOSED SOILS, STREAM BANKS, OR ANY OTHER SITE WHERE THE FLOW COULD CAUSE EROSION.
2. SILT FROM CONSTRUCTION SITES SHALL NOT BE PERMITTED TO ENTER STORM SEWERS. WHEN CONSTRUCTION OCCURS NEAR STORM SEWER INLETS, EROSION CONTROL MEASURES SUCH AS INLET FILTERS SHALL BE USED TO PREVENT SILT FROM ENTERING THE STORM SEWERS.
3. ALL WATER SHALL BE CONVEYED FROM THE CONSTRUCTION SITE IN A CLOSED CONDUIT. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

STREAM CROSSINGS

1. WHEN CLEARING VEGETATION PRIOR TO INITIATING STREAM CROSSING WORK, STREAMBANK TREES, SHRUBS, AND OTHER VEGETATION SHOULD BE LEFT IN PLACE TO HELP CONTROL EROSION; WHERE EQUIPMENT OPERATION REQUIRES TREE REMOVAL, STUMPS AND ROOTS ARE TO REMAIN IN PLACE TO HELP ANCHOR THE STREAMBANK.
2. PRIOR TO STARTING ANY STREAM CROSSING, SILT BARRIERS SHALL BE PLACED ALONG THE BANKS WHERE VEGETATION REMOVAL HAS OCCURRED OR IS ANTICIPATED, OR EXPOSED SOIL EXISTS. SPOILS OR OTHER FILL MATERIALS ARE NOT TO BE STOCKPILED WITHIN 50 FEET OF THE STREAM.
3. CONSTRUCTION WITHIN A STREAM SHALL BE CONTINUED UNTIL COMPLETED. A STREAM CROSSING SHALL NOT BE STARTED UNLESS THE CONTRACTOR IS PREPARED TO FINISH THE WORK IMMEDIATELY. WORK SHALL NOT START UNLESS TIME AND WEATHER CONSTRAINTS HAVE BEEN PROVIDED FOR. STREAM CROSSING WORK SHALL BE RESTRICTED TO PERIODS OF DRY WEATHER AND LOW-FLOW OR NO-FLOW CONDITIONS.
4. RESTORATION SHALL INCLUDE THE RE-ESTABLISHMENT OF CHANNEL CONTOURS AND BANK STABILIZATION AND SHALL START IMMEDIATELY AFTER THE CROSSING IS COMPLETED.
5. WHEN USING OPEN CUT METHODS FOR LAYING SEWER PIPE ACROSS INTERMITTENT OR VERY SMALL STREAMS, THE STREAM CROSSING AND ASSOCIATED RESTORATION SHALL BE PERFORMED WITHIN A 48 HOUR PERIOD. THE STREAM CROSSING AND ASSOCIATED RESTORATION SHALL BE PERFORMED WITHIN A ONE WEEK (SEVEN DAYS) PERIOD IF THE CROSSING INVOLVES TEMPORARY DIVERSION OF A SMALL TO MODERATE SIZE STREAM AND ENCASEMENT OF THE PIPE IN CONCRETE.
6. ACCEPTABLE FLOW DIVERSION PROCEDURES SUCH AS BYPASS PUMPING, TEMPORARY PARALLEL STREAM CHANNELS, COFFERDAMS, OR TEMPORARY DIKES SHALL BE USED. THE DIVERSION PROCEDURE SHALL BE CONDUCTED IN SUCH A FASHION TO PREVENT THE DISCHARGE OF ANY AND ALL SPOILS, SILTS, CONSTRUCTION DEBRIS, OR EXCAVATED MATERIALS INTO THE STREAM WATER. THE COMPLETE CROSSING SHALL NOT IMPEDE THE FLOW OF WATER OR CREATE AN IMPOUNDMENT OF WATER UPSTREAM OF THE CROSSING.
7. THE WIDTH OF THE EASEMENT FOR THE STREAM CROSSING SHALL BE RESTRICTED TO ONLY THAT NECESSARY TO PERFORM THE WORK.
8. MATERIAL EXCAVATED FROM BORING PITS (FOR JACK AND BORE CROSSINGS) SHALL BE SURROUNDED WITH PROPERLY INSTALLED AND MAINTAINED SILT FENCES.
9. CONSTRUCTION EQUIPMENT SHALL BE KEPT OUT OF THE STREAM CHANNEL EXCEPT DURING ACTUAL PIPE INSTALLATION.

ARCHAEOLOGICAL / HISTORICAL RESOURCES

1. CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED UNDER OHIO REVISED CODE SECTION 149.53 TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHAEOLOGICAL DISCOVERIES IN THE PROJECT AREA, AND TO COOPERATE WITH THOSE ENTITIES IN ARCHAEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS.

CONTACT: OHIO HISTORIC PRESERVATION OFFICE
PHONE: 614-297-2470

PROHIBITED CONSTRUCTION ACTIVITIES

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL OR TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDOR, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
2. STOCKPILING MATERIALS OR STORING CONSTRUCTION EQUIPMENT AND VEHICLES ON PROPERTY NOT SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
3. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
4. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
5. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, OR OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO ANY NATURAL OR MAN-MADE CHANNELS.
6. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
7. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
9. DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, DRILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC, OR PUBLIC PLACES OF HUMAN OCCUPATION.
10. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER.
11. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 A.M. AND 5:00 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.
12. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE, OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS:
   - BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
   - BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR RESIDENCE; OR
   - BY VEHICLES TO DRIVEWAYS WITHOUT PROVIDING ALTERNATE ACCESS.

ENVIRONMENTAL CONDITIONS AND GENERAL NOTES

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY

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SCALE NONE

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID

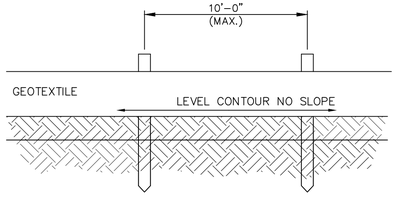
DATE: SEPTEMBER 2020

SHEET NO.

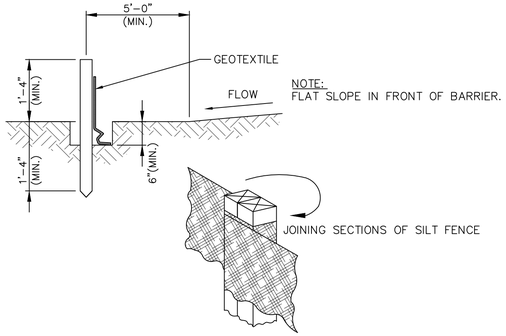
EC-1

37 OF 39

TQL-7448002EC
9/25/2020 9:55 AM
9/25/2020 9:56 AM



ELEVATION



NOTES:

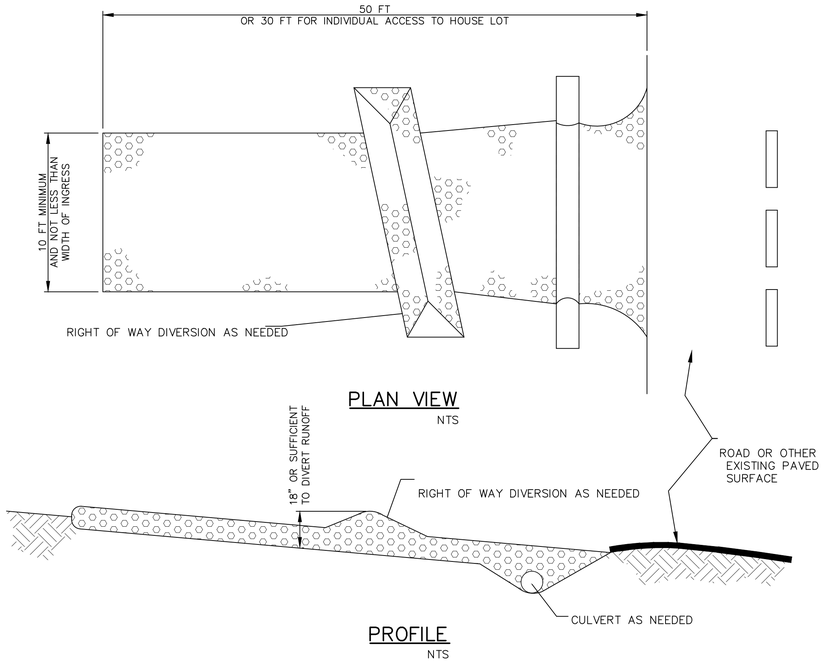
1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE FENCE.
6. SOIL STOCKPILES OR OTHER SOURCES OF SEDIMENT SHALL HAVE SILT FENCE PROTECTION.
7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACK FILLED AND COMPACTED.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
10. MAINTENANCE-- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVER TOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
    - A. THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED.
    - B. ACCUMULATED SEDIMENT SHALL BE REMOVED.
    - C. OTHER PRACTICES SHALL BE INSTALLED.

CRITERIA FOR SILT FENCE MATERIALS:

1. FENCE POSTS – THE LENGTH SHALL BE A MINIMUM OF 32" LONG. WOOD POST WILL BE 2" X 2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 P.S.I. MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./FT.^{2} MAX.	
EQUIVALENT OPENING SIZE	40–80	US STD. SIEVE CW–02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM–G–26

SILT FENCE
NTS



PLAN VIEW
NTS

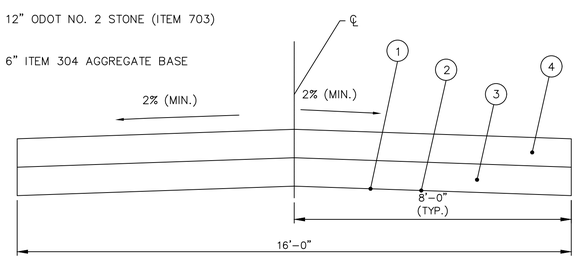
PROFILE
NTS

① ITEM 204 SUBGRADE COMPACTION

② ITEM 861 GEOGRID FOR SUBGRADE, TENSAR TRIAX OR APPROVED EQUAL

③ 12" ODOT NO. 2 STONE (ITEM 703)

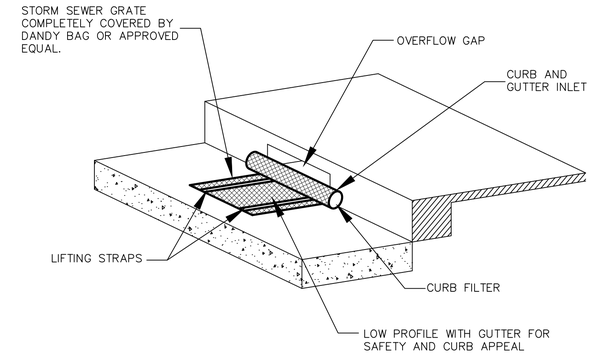
④ 6" ITEM 304 AGGREGATE BASE



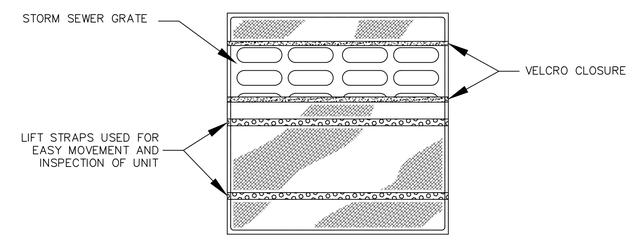
NOTES:

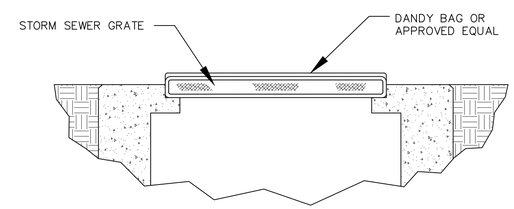
1. THE TYPICAL SECTION PROVIDED FOR TEMPORARY ACCESS ROAD SHALL BE CONSIDERED THE MINIMUM CROSS SECTION TO BE PROVIDED. THE CONTRACTOR MAY CHOSE TO THICKEN THE AGGREGATE OR STONE LAYERS TO ACCOMMODATE EQUIPMENT TO BE USED FOR WORK. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ADDITIONAL AGGREGATE OR STONE THICKNESS.
2. THE CONTRACTOR SHALL PROVIDE ADDITIONAL AGGREGATE STONE TO ADDRESS AREAS OF DEFICIENCY AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ADDITIONAL AREAS OF DEFICIENCY.
3. ADDITIONAL CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT ALL LOCATIONS WHERE THE CONTRACTOR'S ACCESS ROUTES OR EQUIPMENT MAY TRACK SPOILS ON TO PUBLIC ROADWAYS.

CONSTRUCTION ENTRANCE
TYPICAL SECTION
NTS



INLET PROTECTION FOR
DRAINS WITH HOOD
NTS





INLET PROTECTION FOR DRAINS
WITHOUT HOOD
NTS

NOTES:

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM SEWER BECOMES ACTIVE IN THE CASE OF NEW CONSTRUCTION.
2. ALL STORMWATER INLETS THAT RECEIVE DRAINAGE FROM AREAS DISTURBED BY THE WORK SHALL RECEIVE INLET PROTECTION.

EROSION CONTROL DETAILS

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY

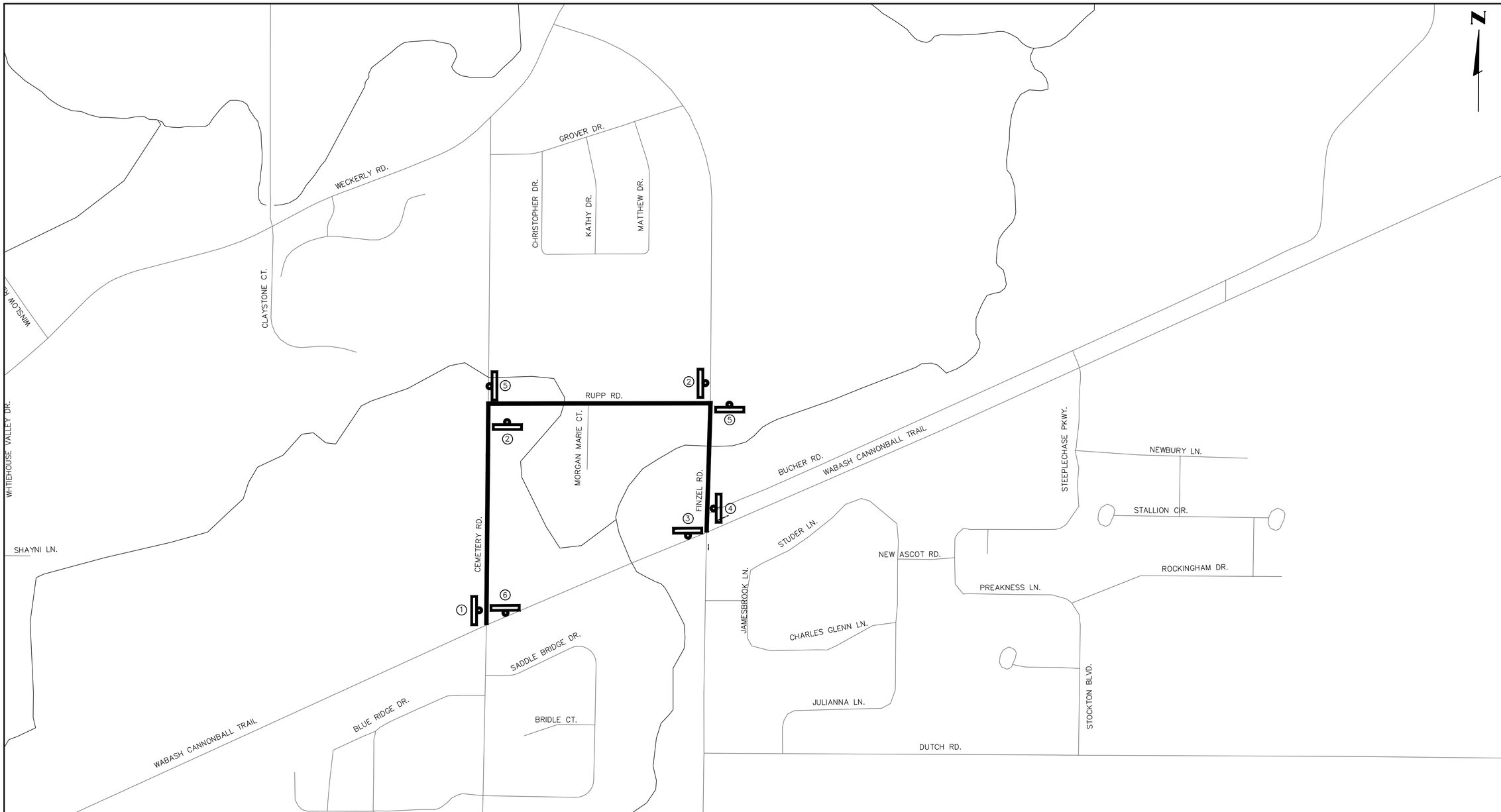
Jones & Henry Engineers, Ltd.
Fluid thinking©.
www.JHeng.com

JOB NO. 334-7448.002
SCALE AS SHOWN
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID
DATE: SEPTEMBER 2020
SHEET NO.
EC-2
38 OF 39

TOL-7448002EC
09/25/2020 9:55 AM
9/25/2020 9:56 AM



LEGEND

= SIGN LOCATION

(X) = TYPE OF SIGN (SEE SIGN LEGEND)

= ROUTE

TRAIL E.B.
BEGIN DETOUR
DETOUR
(1) (1 REQUIRED)

TRAIL E.B.
DETOUR
(2) (2 REQUIRED)

TRAIL E.B.
END DETOUR
DETOUR
(3) (1 REQUIRED)

TRAIL W.B.
BEGIN DETOUR
DETOUR
(4) (1 REQUIRED)

TRAIL W.B.
DETOUR
(5) (2 REQUIRED)

TRAIL W.B.
END DETOUR
DETOUR
(6) (1 REQUIRED)

SIGN LEGEND

WABASH CANNONBALL TRAIL
BIKE PATH DETOUR PLAN

VILLAGE OF WHITEHOUSE, OHIO WABASH CANNONBALL TRAIL
INTERCEPTOR SEWER & FINZEL ROAD PUMP STATION REHABILITATION

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
5			
4			
3			
2			
1			

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SCALE 1" = 300'

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
AMM	AMM	TAB

STATUS: ISSUED FOR BID

DATE: SEPTEMBER 2020

SHEET NO.

TR-1

39 OF 39

TOL-7448\02\TRAFFIC
09/25/2020 9:56 AM
9/25/2020 9:56 AM