CONSTRUCTION DOCUMENTS FOR:

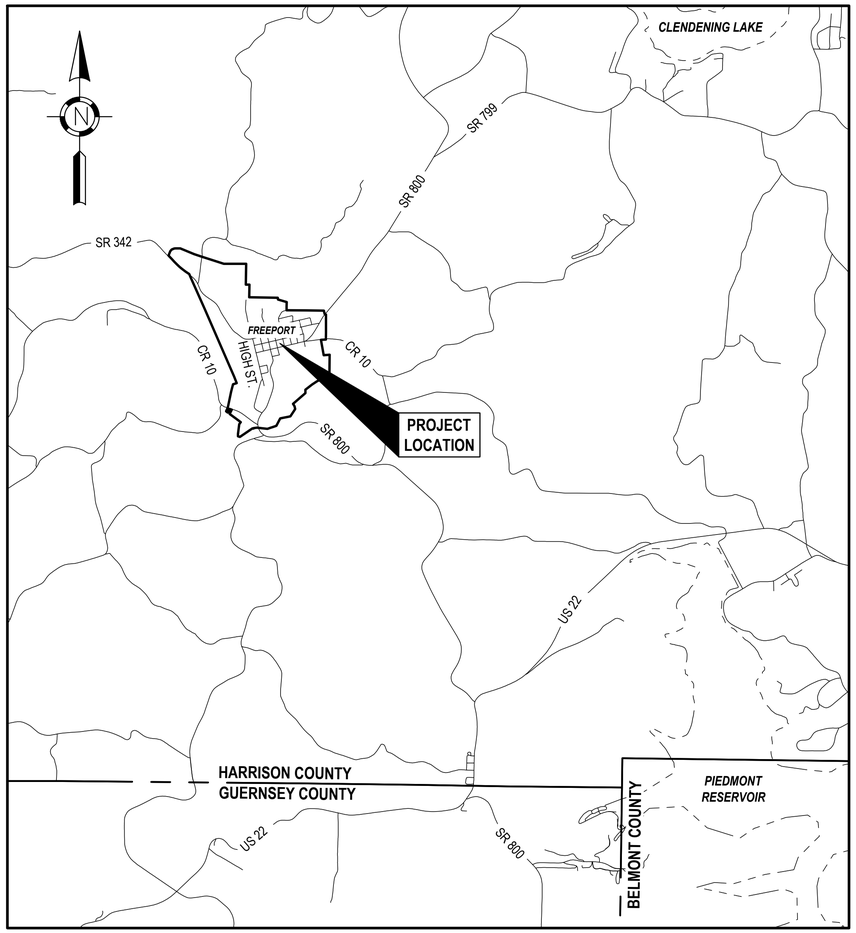
VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS

HARRISON COUNTY WATER & SEWER DISTRICT
HARRISON COUNTY, OHIO

RECORD DRAWINGS
SEWER SUBSTANTIAL COMPLETION: 12/20/2024
CONTRACTOR: BORDER PATROL, LLC

RECORD DRAWINGS BASED ON AS-BUILT INFORMATION PROVIDED BY CONTRACTOR

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LOCATION MAP

0 1250 2500 5000
SCALE IN FEET

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF INSTALLATION OF A 75,000 GPD WASTEWATER TREATMENT PLANT AND SANITARY COLLECTION SYSTEM INCLUDING: GRAVITY SEWER, ONE LIFT STATION, MULTIPLE GRINDER PUMP STATIONS, AND FORCE MAINS.

APPROVALS

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

Dale Norris 11/23/2020
DALE NORRIS — DATE
HARRISON COUNTY COMMISSIONER, CHAIRMAN

DONALD BETHEL — DATE
HARRISON COUNTY COMMISSIONER

Paul Coffland 11/23/2020
PAUL COFFLAND — DATE
HARRISON COUNTY COMMISSIONER

Larry Wells 11-20-20
LARRY WELLS — DATE
VILLAGE OF FREEPORT, MAYOR

PLANS PREPARED BY:

HULL Environment / Energy / Infrastructure
PRIME AE

Cheryl L. Green 08/10/2022
CHERYL L. GREEN, P.E. 47635 — DATE

Mark J. Buchenic 08/10/2022
MARK J. BUCHENIC, P.E. 57916 — DATE

STATE OF OHIO · CHERYL L GREEN · E-47635 · REGISTERED PROFESSIONAL ENGINEER

STATE OF OHIO · MARK J. BUCHENIC · E-57916 · REGISTERED PROFESSIONAL ENGINEER

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Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL/PRIME AE
Drawn By:	AJP
Check By:	CLG/MJB
Scale:	
Issue Date:	AUGUST 2025

Sheet Title:

TITLE SHEET

Sheet Number:

G-1

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STANDARD ISSUED STATUS CODE DESIGNATIONS FOR PROJECT DOCUMENTS

TITLE	DESCRIPTION
PRE	PRELIMINARY (30%) DETAILED DESIGN/CONSTRUCTABILITY REVIEW (D/CR) DOCUMENTS.
MID	MID-POINT (60%) D/CR DOCUMENTS.
FNL	FINAL (90% OR 100%, AS SPECIFIED) COMPLETED VERSIONS OF PROJECT DOCUMENTS.
BID	BIDDING DOCUMENTS PROJECT DOCUMENTS INITIALLY ISSUED FOR BIDDING PURPOSES.
ADD	ADDENDUM AN OFFICIAL REVISION TO A BIDDING DOCUMENT PRIOR TO THE ACTUAL BID OPENING. THE DESIGNATION SHOWN ON THE AFFECTED DOCUMENT(S) SHALL INCLUDE THE ISSUED STATUS CODE "ADD" FOLLOWED BY THE APPLICABLE ADDENDUM § AND DATE. EXAMPLE: ISSUED STATUS: ADD1, 01/07/19 (JANUARY 7, 2019).
PTI	PERMIT TO INSTALL – CONTRACT DOCUMENTS SUBMITTED TO OEPA OR ODNR, ETC. FOR APPROVAL
*	* INTERIM STATUS (DESIGNATION ASSIGNED AS APPLICABLE) DOCUMENTS WHICH ARE SUBMITTED IN CONNECTION WITH A POSSIBLE CHANGE. INTERIM DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: REQUEST FOR INFORMATION (RFI), REQUEST FOR PROPOSAL (RFP), MINOR CHANGE (MC), ETC. THESE INTERIM PE CHANGES ARE DOCUMENTED PRIOR TO OR DURING CONSTRUCTION AND BECOME PART OF THE OFFICIAL CONSTRUCTION RECORDS. EXAMPLE: RFP 001, ISSUED: 07/10/98. THESE SPECIFIC ITEMS ARE TRACKED BY THE DESIGN PROFESSIONAL FOR INCORPORATION INTO THE FINAL RECORD (REC) DOCUMENTS. GENERALLY APPROVED RFPS ARE INCORPORATED BY TREATMENT ENGINEER (TE) INTO CONTRACT MODIFICATION(S). MODS ARE SUBMITTED TO CITY COUNCIL FOR FORMAL APPROVAL. (ALSO, SEE RCC STATUS BELOW.)
RCC	(REVISED) CONFORMED TO CONTRACT RCC DOCUMENTS (IF USED) ARE ISSUED FOLLOWING A SERIES OF APPROVED REQUESTS FOR PROPOSALS (RFP). RCC DOCUMENTS ARE ISSUED AS "OFFICIAL" REPLACEMENT OR SUPPLEMENTAL CONTRACT DOCUMENTS. WHEN ISSUING RCC DOCUMENTS, EACH PROJECT MANUAL PAGE OR CONTRACT DRAWING SHEET ISSUED MUST BE PROPERLY IDENTIFIED BY THE APPLICABLE RCC NUMBER & THE RCC ISSUED DATE. EXAMPLE: RCC1, ISSUED: 06/30/98. THE APPLICABLE REASONS FOR THE RCC UPDATE MUST BE DOCUMENTED PER THE ISSUER'S TRANSMITTAL LETTER AND BE REFLECTED ON THE FINAL VERSION OF THE PROJECT RECORD (REC) DOCUMENTS.
REC	FINAL RECORD DOCUMENTS FINAL "AS-BULT" RECORD (REC) DRAWINGS AND PROJECT MANUAL ON CD-ROM. THE REC DOCUMENTS MAY ALSO INCLUDE "SUPPLEMENTAL" DIVISION 15 & 16 AS-BUILT RECORD DRAWINGS, WHICH HAVE BEEN UPDATED TO REFLECT AS-BUILT CONDITIONS AND TO CONFORM TO THE CONTRACT CONSTRUCTION RECORDS.

LEGEND

SITE LINETYPES

EXISTING	PROPOSED	
100	100	CONTOUR MAJOR
101	101	CONTOUR MINOR
		PROPERTY LINE
R/W	R/W	RIGHT OF WAY
		BUILDING
		EDGE OF WATER
X	X	FENCING
		SILT FENCING
		GUARDRAIL
		EDGE OF PAYMENT
ExAc		ACCESS EASEMENT
ExSw	Sw	PERMANENT SANITARY UTILITY EASEMENT
	TMP	TEMPORARY CONSTRUCTION EASEMENT
SA	SA	SANITARY LINE
Ss	Ss	SANITARY SERVICE LINE
Fms	Fms	SANITARY FORCE MAIN SERVICE LINE
Fm	Fm	SANITARY FORCE MAIN
G	G	GAS LINE
W	W	WATER LINE
Ws	Ws	WATER SERVICE LINE
E	E	UNDERGROUND ELECTRIC
OH	OH	OVERHEAD ELECTRIC
T	T	TELEPHONE LINE
FO	FO	FIBER OPTIC CABLE
		PIPE SMALLER THAN 10"
		PIPE 10" OR LARGER
		DITCH
		SIDEWALK
		DRIVEWAY
		PARKING LOT STALL
		DOUBLE CENTERLINE MARKINGS
		STAIRS
		TREE OR BRUSH LINE
		SHRUB LINE

SITE SYMBOLS

- TREE WITH LEAVES
- TREE WITH NEEDLES
- BUSH
- AC UNIT
- CABLE TV PEDESTAL
- CATCH BASIN
- CURB INLET
- CATCH BASIN ROUND
- UNKNOWN MANHOLE
- SATELLITE DISH
- ELECTRIC BOX
- ELECTRIC METER/ALARM PANEL
- ELECTRIC MANHOLE
- FIRE DEPT. CONNECTION
- FIRE HYDRANT
- GAS LINE MARKER
- GAS METER
- GAS VALVE (MAIN)
- GAS VALVE (SERVICE)
- GRINDER PUMP STATION
- GUY WIRE
- LIGHT POLE
- POWER POLE
- POWER/LIGHT POLE
- POWER/TELEPHONE POLE
- SANITARY CLEANOUT
- SANITARY MANHOLE
- SANITARY VALVE/VALVE BOX
- SIGN
- STORM MANHOLE
- HANDICAP PARKING
- SEPTIC TANK
- TELEPHONE MANHOLE
- TELEPHOLE PEDESTAL
- TELEPHONE POLE
- WATER METER
- WATER VALVE (MAIN)
- WATER VALVE (SERVICE)
- WATER MANHOLE
- UTILITY MARKER
- WYE POLE
- YARD DRAIN
- YARD LIGHT
- CONTROL POINT
- D.H.F. DRILL HOLE FND.
- GOV. DISK FND.
- I.P.F. IRON PIN FND.
- I.P.S. IRON PIN SET
- P.F. IRON PIPE FND.
- P.S. IRON PIPE SET
- M.N.F. MAG NAIL FND.
- CONC. MON. FND.
- MON. BOX FND.
- MINE SPIKE FND.
- P.K.F. P.K. NAIL FND.
- P.K.S. P.K. NAIL SET
- RR SPIKE FND.
- SECTION COR. FND.
- STONE FND.
- T.B.F. T-BAR FND.
- 1014.00 SPOT ELEVATIONS
- WATER SURFACE
- GEOTECHNICAL BORING
- PROPOSED ELEVATION

MATERIAL SYMBOLS

- EARTH
- GRAVEL
- CONCRETE
- PROPOSED SANITARY UTILITY EASEMENT
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- CONCRETE FILL OR GROUT FILL
- ASPHALT SURFACE REPLACEMENT
- CONCRETE SURFACE REPLACEMENT
- GRAVEL SURFACE REPLACEMENT

SHEET NAMING CONVENTION

EXAMPLE: FIRST ORDER SYMBOL – SECOND ORDER SYMBOL(S) – SHEET NUMBER

FIRST ORDER SYMBOLS:

SYMBOL	DESCRIPTION
C	COLLECTION SYSTEM
G	GENERAL
T	TREATMENT SYSTEM

SECOND ORDER SYMBOLS:

SYMBOL	DESCRIPTION
A	ARCHITECTURAL
E	ELECTRICAL
G	GENERAL
M	MECHANICAL
P	PROCESS (1P = 1ST PROCESS, 2P = 2ND PROCESS)
PP	PLAN & PROFILE
S	STRUCTURAL
SW	SITE WORK

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Professional Seal:

STATE OF OHIO · CHERYL L GREEN · E-47635 · REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	
Issue Date:	AUGUST 2025

Sheet Title:

LEGEND & SYMBOLS

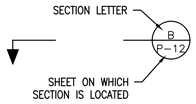
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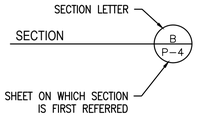
G-2

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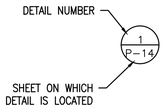
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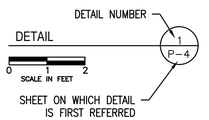
FOR SECTIONS





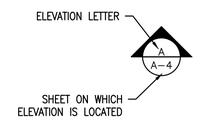
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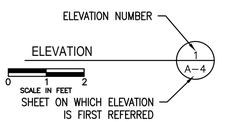






FOR ELEVATIONS





ABBREVIATIONS

'	FEET / MINUTE
"	INCH / SECOND
#	NUMBER
%	PERCENT
&	AND
/	PER/AND/OF/OR
@	AT
±	PLUS OR MINUS
°	DEGREE
Ø	DIAMETER
(E)VRV A ESMNT	EXISTING VAPOR RELIEF VENT ACCESS EASEMENT
A/E	ARCHITECT/ENGINEER
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AB	ANCHOR BOLT
AC	ACRE(S)
ACI	AMERICAN CONCRETE INSTITUTE
ACOUS	ACOUSTICAL
AD	AIR DISTRIBUTION
ADD'L	ADDITIONAL
AFF	AFTER FINISHED FLOOR
AGGR	AGGREGATE
AFR	ABOVE FINISHED ROOF
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL	ALARM
ALT	ALTERNATIVE
ALUM	ALUMINUM
AMP	AMPERE
ANO	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AIR SEPERATOR
ASC	ABOCE SUSPENED CEILING
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASD	ALLOWABLE STRESS DESIGN
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ATS	AUTOMATIC TRANSFER SWITCH
ATSSA	AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
B-#	GEOLOGICAL BORING - #
B/	BOTTOM OF
B/C	FUTURE BACK OF CURB
BBX	BWOAS/BWO DROP STRUCTURE
BC	BRANCH CONTROLLER (VRF)
BD	BOARD
BF	BLIND FLANGE
BF-#	BLOWER FAN - #
BHP	BRAKE HORSE POWER
BIT	BITUMINOUS
BL	BASELINE
BLDG	BUILDING
BM	BENCH MARK
BM-#	BENCHMARK - #
BO	BY OTHERS
BOD	BOTTOM OF DUCT
BOT	BOTTOM
BP	BACKFLOW PREVENTER
BRG	BEARING
BSMT	BASEMENT
BTU/H	BRITISH THERMAL UNITS PER HOUR
BUR	BUILT UP ROOF
C	CONDUIT
C.B.	CATCH BASIN
C/C	CENTER TO CENTER
CA	CABLE
CAP	CAPACITY
CCFRP	CENTRIFUGALLY CAST FIBER REINFORCED PLASTIC
CCFRPP	CENTRIFUGALLY CAST FIBER REINFORCED PLASTIC PIPE
CCFRPMP	CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE
CCW	COUNTER CLOCKWISE
CDF	CONTROLLED DENSITY FILL
CEB	CONCRETE EQUIPMENT BASE
CENT	CENTRIFUGAL
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CG	COLUMBIA GAS
CGB	COMPACTED GRANULAR BACKFILL
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONSTRUCTION/CONTROL JOINT
CKT	CIRCUIT
CKTBKR	CIRCUIT BREAKER
CL	CENTERLINE
C-L	CHAINLINK
CLG	CEILING
CLR	CLEAR/CLEARANCE
CM	CARBON MONOXIDE
CMB	COMBINED SEWER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT OR CONTRACTING OFFICER
COL	COLUMN
COMP	COMPANY
COMP'D	COMPACTED
CONC	CONCRETE
COND	CONDUCTOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONT'D	CONTINUED
CONV	CONVECTOR OR CONVEYOR
CORP	CORPORATION
COW	CONTROL OBSERVATION WELL
CP	CONVERGENCE POINT
CP-#	CONTROL POINT - #
CSK	COUNTERSINK/COUNTERSUNK
CTR	CENTER
CTW	CLOSE TO WALL
CULV	CULVERT
CW	COLD WATER
CWA	CONCRETE WASHOUT AREA
CY	CUBIC YARD
D	DIFFUSER
DBM	DEEP BENCH MARK
db	DIAMETER OR BAR
DB	DEED BOOK
DEFL	DEFLECT(ION)
DEG	DEGREE
DEMO	DEMOLITION, DEMOLISH
DET/DTL	DETAIL
DEV	DEVELOPMENT
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DUCTILE IRON OR DEIONIZED
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DIST	DISTANCE
DL	DRUM LOUVER
DN	DOWN
DND	DO NOT DISTURB
DPR	DAMPER
DR	DRIVE
DRN	DRAIN
DS	DOWNSPOUT
DWG	DRAWING(S)
DWL(S)	DOWEL(S)
DX	DIRECT EXPANSION
E	EAST OR EASTING
E&SC	EROSION & SEDIMENT CONTROL
E/	EDGE OF
E/P	EDGE OF PAVEMENT
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EB	ELECTRIC BASEBOARD
EE	EACH END
EF	EACH FACE
EFF	EFFICIENCY
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATOR
ELL	ELBOW
EMBD	EMBEDMENT
EMH	ELECTRICAL MANHOLE
ENG	ENGINEER/ENGINEERING
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPH	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
ESMNT	EASEMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXCAV	EXCAVATION
EXH	EXHAUST
EXHA	EXHAUST AIR
EXHF	EXHAUST FAN
EXHR	EXHAUST REGISTER
EXP	EXPOSED
EXT	EXTERIOR
EX	EXISTING
F/F	FACE TO FACE
F.E.C.	FIRE EXTINGUISHER CABINET
F/C	FACE OF CURB
F/L	FIELD LINE
F/P	100-YEAR FLOODPLAIN
FAR	FOUL AIR
FBS	FLUSH BELL SPIGOT
FC	FLEXIBLE CONNECTION OR FORWARD CURVED
F'C	COMPRESSIVE STRENGTH OF CONCRETE
FCDF	FLOWABLE CONTROLLED DENSITY FILL
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FID	FIRE DAMPER
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUNDATION
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	ALLOWABLE TENSION STRESS IN REINFORCEMENT
FT	FEET
FT HD	FEET OF HEAD
FV	FIELD VERIFY
FY	YIELD STRENGTH OF STRUCTURAL STEEL AND WELDED WIRE FABRIC
G	GAS / NATURAL GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GDSR	GEOTECHNICAL DESIGN SUMMARY REPORT
GEN	GENERAL
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GUARDRAIL
GRVL	GRAVEL
GS	GRINDER (PUMP) STATION
GSP	GALVANIZED STEEL PIPE
GU	GUTTER
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H	HUMIDIFIER
HB	HOSE BIBB
HBF	HEAVY BROOM FINISH
HC	HOLLOW CORE
HD	HEAD
HDG	HOT DIPPED GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
HEX	HEXAGONAL
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPM	HOI MIX PAVEMENT MODIFIER
HR	HANDRAIL
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ
IC	INCLINOMETER
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INC	INCORPORATED
INCAND	INCANDESCENT
INCL	INCLUDE(ED)(ING)
INFO	INFORMATION
INN	INSTRUMENT NUMBER
INSUL	INSULATION
INV	INVERT
IP&C	IRON PIPE & CAP
IP	IRON PIN
IPF	IRON PIN FOUND
IRG	IRRIGATION-GSP
IRR	IRRIGATION-PVC PIPE
IS	INSIDE
J	JUNCTION BOX
JST	JOIST
JT	JOINT
KO	KNOCKOUT
KSI	KIPS PER SQUARE INCH
KVA	KILOVOLTS AMPERES
KVAR	KILOVOLTS AMPERES-REACTIVE
KW	KILOWATT
L	ANGLE
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LBF	LIGHT BROOM FINISH
LF	LINEAR FEET
LG	LONG
LGA	LIGHT GUAGE
LGTH	LENGTH
LOC	LOCATION
LT	LEFT
LV	LOUVER
M	METER
MAG	MAG NAIL
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MB	MAILBOX
MBH	1000 BTU
MC	MECHANICAL CURB
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MECH	MECHANICAL
MECHP	MECHANICAL PIPE
MEDP	MEDIUM PRESSURE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MNS	MAG NAIL SET
MO	MASONRY OPENING
MON	SURVEY MONUMENT
MPH	MILES PER HOUR
MSPK	MINE SPIKE
MT	METAL THERSHOLD
MTD	MOUNTED
MTL	METAL
MW	MONITORING WELL
N	NORTH, NORTHING
NA	NOT APPLICABLE
NCHRP	NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
NGS	NATIONAL GEODETIC SURVEY
NIC	NOT IN CONTRACT
NO	NUMBER
NOI	NOTICE OF INTENT
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NPT	NATIONAL PIPE THREAD
NPW	NON POTABLE WATER
NS	NORFOLK SOUTHERN CORPORATION
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAE	OR APPROVED EQUAL
OBT	OHIO BELL TELEPHONE
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODNR	OHIO DEPARTMENT OF NATURAL RESOURCES
ODOT	OHIO DEPARTMENT OF TRANSPORTATION
OEPA	OHIO ENVIRONMENTAL PROTECTION AGENCY
OF	OUTSIDE FACE
OH	OVERHEAD
OHA	ROOF OVERHANG ABOVE
OMUTCD	OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
OPNG(S)	OPENING(S)
OPP	OPPOSITE
OR	OFFICIAL RECORD
OS	OUTSIDE
OSD	OUTSIDE DROP
OW	OBSERVATION WELL
P	POLE
PA	PREVIOUSLY ABANDONED
PA ESMNT	PERMANENT ACCESS EASEMENT
PB	PLAT BOOK
PC	POINT OF CURVATURE
PCB	POTABLE CONCRETE BARRIER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PCF	POUNDS PER CUBIC FOOT
PE	PLAIN END
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PAGE
PI	POINT OF INTERSECTION
PKF	PK FOUND
PKWY	PARKWAY
PL	PROPERTY LINE
PLF	POUNDS PER LINEAR FOOT
PLT	PLATE
PLYWD	PLYWOOD
PMJF	PREMOLDED JOINT FILLER
PNT	PAINT
POP	PANEL OPERABLE PARTITION
PP	PITCH POCKET
PR	PAIR
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PRPT	PARAPET
PS	PUMP STATION
PS ESMNT	PERMANENT SANITARY EASEMENT
PSCRN	PROJECTION SCREEN
PSE	PERMANENT SUBTERRANEAN TUNNEL EASEMENT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	POTABLE WATER
QTY	QUANTITY
R	RADIUS
R/W	RIGHT OF WAY
RA	RETURN AIR
RAD	RADIUS
RADT	RADIATOR
RAR	RETURN AIR REGISTER
RCP	REINFORCED CONCRETE PIPE
RCP-PVC	REINFORCED CONCRETE PIPE W/ POLYVINYL CHORIDE LINING
RD	ROAD
RDL	ROOF DRAIN LEADER
RDRN	ROOF DRAIN
REBAR	REINFORCING BAR
RED	REDUCER
REG	REGISTER
REINF	REINFORCE(D)(ING)(MENT)
REL A	RELIEF AIR
REQ	REQUIRED
REST	RESTORATION
RL	REFRIGERANT LIQUID
RM	ROOM
RP	RECORD PLAN NO.
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RS	REFRIGERANT SUCTION
RSF	RAILROAD SPIKE FOUD
RT	RIGHT
RTW	PRESSURE TREATED WOOD
RV	RIDGE or ROOF VENT
S	SOUTH
S/M	SHAFT / MANHOLE
S3D	PERMANET SUBTERRANEAN EASEMENT
SA	SUPPLY AIR
SAN	SANITARY
SB	STRAW BALE
SC	SCALE
SCH	SCHEDULE
SECT	SECTION
SF	SILT FENCE
SG	SEISMOGRAPH
SHT	SHEET
SHTG	SHEETING
SIM	SIMILAR
SIN	SINGLE
SJ	SCORED JOINT
SL	SLOPE
SLG	SLUDGE LINE
SMH	SEWER MANHOLE
SN	STIFFNESS CLASS
SP	SPRING LINE
SPD	SUMP PUMP DISCHARGE
SPEC	SPECIFICATION(S)
SPK	SPRINKLER
SPLD	SPLITTER DAMPER
SQ	SQUARE
SF	SQUARE FEET
SR	SUPPLY REGISTER
SSM	SURFACE SETTLEMENT MARKER
SSMH	STORM SEWER MANHOLE
SSSI	SUBSURFACE SHALLOW SETTLEMENT INDICATOR
SS	STAINLESS STEEL
ST	STREET
STD	STANDARD
STL	STEEL
STM	STORM SEWER
STRUCT	STRUCTURAL
STW	STORM WATER
SUCT	SUCTION
SUSP	SUSPENDED
SW	SINGLE WALL
SWMP	STORM WATER MANAGEMENT PLAN
SWP3	STORM WATER POLLUTION PREVENTION PLAN
SWPP	STORM WATER POLLUTION PREVENTION
SYM	SYMMETRICAL
SYS	SYSTEM
T	TELEPHONE
T&B	TOP & BOTTOM
T/	TOP OF
TAG	TRANSFER ANGLE GRILLE
TB	TEST BORING
TBA	TO BE ABANDOED
TBD	TO BE DETERMINED
TBM	TUNNEL BORING MACHING
TBR	TO BE REMOVED
TBRL	TO BE RELOCATED
TBRRPL	TO BE REMOVED AND REPLACED
TBRRST	TO BE REMOVED AND RESET
TC	TOP OF CASTING
TC ESMNT	TEMPORARY CONSTRUCTION EASEMENT
TCP	TEMPERATURE CONTROL PANNEL
TEMP	TEMPORARY
TEN	TENSION
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
THERM	THERMOMETER
THK	THICK(NESS)
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
TP	TRAP PRIMER
TR	TRAFFIC
TRTD	TREATED
TS	TUBE STEEL
TS	TRAVERSE STATION
TSP	TOTAL STATIC PRESSURE
TV	TELEVISION CABLE
TYP	TYPICAL
UBO	UNIDENTIFIED BURIED OBJECT
UFT	UNDER FLOOR THERMAL
UG	UNDERGROUND
UH	UNIT HEATER
UHMW	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
UNO	UNLESS NOTED OTHERWISE
UNS	UNIFIED NUMBERING SYSTEM FOR METAL & ALLOYS
UR	URINAL
US	UTILITY SHELF
USGS	UNITED STATES GEOLOGICAL SURVEY
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VB	VAPOR BARRIER
VERT	VERTICAL
VF-#	VENTILATION FAN - #
VMS	VIRGINIA MILITARY SURVEY
VNT	VENT
VP	VENT PIPE
VRF	VARIBLE REFRIGERATION FLOW
VRV	VAPOR RELIEF VENT
VTR	VENT THU ROOF
W	WEST
W/	WITH
W/C	WATER CLOSET
W/O	WITHOUT
WCO	WALL CLEANOUT
WD	WOOD
WE	WHITE EDGELINE
WF	WIDE FLANGE
WLS	WALL LOUVER AND SCREEN
WM	WATER MAIN
WP	WATERPROOF
WR	WATER RESISTANT
WT	WATER TIGHT
WWF	WELDED WIRE FABRIC

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STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED
PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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	BID	03/22/22
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ABBREVIATIONS

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G-3

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GENERAL NOTES

G00 - SPECIFICATIONS
THE CURRENT REQUIREMENTS OF THE OWNER, THE CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING ALL SUPPLEMENTS THERETO, AS WELL AS THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION SHALL GOVERN THE MATERIALS AND WORKMANSHIP TO COMPLETE THE IMPROVEMENTS SET FORTH IN THESE PLANS.

G01 - UTILITY OWNERS
THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT:

HARRISON COUNTY WATER & SEWER DISTRICT (OWNER)
100 WEST MARKET STREET
CADIZ, OHIO 43907
740-942-0411
STEVE ROCKNICH

ELECTRIC
AMERICAN ELECTRIC POWER
47687 NATIONAL ROAD W.
ST. CLAIRSVILLE, OHIO 43950
740-695-7807
NICOLE CESARIO

GAS
PIEDMONT GAS
159 STONECREEK ROAD NW
NEW PHILADELPHIA, OH 44663
740-819-0954

TELECOMMUNICATIONS/FIBER
WINDSTREAM
776 HOPEWELL DRIVE
HEATH, OHIO 43056
800-347-1991

WATER & STORM SEWER
VILLAGE OF FREEPORT
110 EAST MAIN STREET
FREEPORT, OHIO 43973
740-658-3219
RALPH WRIGHT

GAS
RED HILL DEVELOPMENT
3596 STATE ROUTE 39 NW
DOVER, OHIO 44622
800-501-0002
330-343-1226
ART BAKER

G02 - UTILITY LOCATIONS
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF UTILITIES AS REQUIRED BY SECTION 153.64 ORC. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AND ELEVATION WHEN WORKING IN THEIR VICINITY.

WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT THE EXACT ELEVATION MAY BE DETERMINED AND THE NECESSARY ADJUSTMENTS MADE. COST OF THE ABOVE, IF ANY, WILL BE INCLUDED IN THE PRICE BID FOR THE PERTINENT ITEM.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL UTILITY LINES, SERVICES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED WITH THE PRICE BID FOR THE PERTINENT ITEM, UNLESS OTHERWISE NOTED ON THE PLANS. ESTIMATED QUANTITIES SHOWN ON THE PLANS FOR WATER AND SANITARY SEWER RELOCATIONS ARE FOR THOSE ITEMS ACTUALLY CALLED FOR AND SHOWN ON THE PLANS.

THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS NOT REPRESENTED, WARRANTED OR GUARANTEED TO BE COMPLETE OR ACCURATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, ALL UTILITY LOCATIONS AND ELEVATIONS, PRIOR TO THE BEGINNING OF HIS CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS, IN ACCORDANCE WITH SECTION 153.64, OHIO REVISED CODE, AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE BEGINNING OF ANY WORK, COORDINATE HIS WORK WITH THEM, AND KEEP THE UTILITY OWNERS APPRAISED OF HIS SCHEDULE AND REQUIREMENTS UNTIL ALL WORK IS COMPLETED. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES AND PROVIDING THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK.

BEFORE CONSTRUCTION BEGINS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OHIO UTILITY PROTECTION SERVICES (OUPS) AND THE OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS) BY DIALING 8-1-1 OR VIA THE WEB-BASED E-DIG OR I-DIG NEWTIN REMOTE TICKET ENTRY SYSTEM, DEPENDING ON THE COMPLEXITY OF THE PROJECT AND AREAS TO BE MARKED. THE CONTRACTOR SHALL TAKE OTHER MEASURES AS NEEDED TO ENSURE UTILITIES ARE APPROPRIATELY MARKED AND AN ASSURED DISTANCE IS MAINTAINED FOR THE DURATION OF THE CONTRACT.

G03 - SURVEYS
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION. ALL CONSTRUCTION STAKING, IF NEEDED, SHALL BE DONE BY OR UNDER THE DIRECTION OF A PROFESSIONAL REGISTERED SURVEYOR.

G04 - MODIFICATIONS
ANY MODIFICATIONS OR CHANGES TO THE WORK, AS SHOWN ON THE DRAWINGS, MUST HAVE PRIOR WRITTEN APPROVAL BY THE ENGINEER.

G05 - SAFETY
THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING THE PROJECT SITE FROM THE GENERAL PUBLIC BOTH DURING AND AFTER WORKING HOURS. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL LIGHTS, SIGNS, FENCES, OR ANY OTHER SAFETY DEVICE TO PREVENT UNAUTHORIZED PERSONNEL FROM HAZARDOUS OR DANGEROUS CONDITIONS ON THE PROJECT SITE. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS BID FOR FURNISHING AND INSTALLING MATERIALS ON THIS PROJECT.

INTERIOR NAILERS, BLOCKING, AND OTHER ROUGH CARPENTRY ITEMS INDICATED AS "TREATED WOOD" SHALL BE TREATED FOR FIRE RESISTANCE. ADDITIONALLY AT EXTERIOR PARAPETS OR ROOF ALL WOOD EXPOSED TO MOISTURE SHALL BE TREATED FOR WATER RESISTANCE AS SPECIFIED.

G06 - REVIEW OF PROJECT SITE
PRIOR TO BIDDING THE CONTRACTOR SHALL, BY PERSONAL EXAMINATION, SATISFY HIMSELF AS TO THE LOCATION OF THE PROPOSED WORK AND TO ACQUAINT HIMSELF THOROUGHLY WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT ARE LIKELY TO BE ENCOUNTERED IN THE PERFORMANCE OF THE PROPOSED WORK.

THROUGH OBSERVATION OF THE PROPOSED PROJECT ROUTING PRIOR TO BID, THE CONTRACTOR SHALL NOTE ALL STREAM CROSSINGS WHERE EVIDENCE OF ROCK IS PRESENT. SUCH EXISTING CONDITIONS SHALL BE CONSIDERED IN PREPARING THE BID. ADDITIONAL COMPENSATION SHALL NOT BE GRANTED SHOULD ROCK BE ENCOUNTERED IN THESE LOCATIONS. IN ADDITION, CHANNEL AND BANK RESTORATION WORK, INSTALLATION METHODS, CONCRETE ENCASEMENT, BACKFILL, SEEDING AND MULCHING, AND EROSION CONTROL METHODS SHALL CONSIDER EXISTING STREAM CONDITIONS AND SHALL BE EFFECTED TO PROHIBIT EROSION AND/OR DEGRADATION OF THE EXISTING STREAM CHANNEL.

G07 - IRON PINS AND MONUMENTS
THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATING AT OR NEAR THEM. IF ANY IRON PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR EMPLOYED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT AND AT NO EXPENSE TO THE PROJECT OWNER OR PROPERTY OWNERS.

G08 - PRIOR TO COMMENCEMENT OF WORK
A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE OWNER, PROJECT ENGINEER, AND CONTRACTOR BEFORE ANY CONSTRUCTION BEGINS. AT THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE REFLECTING ALL WORK THAT IS TO BE CONDUCTED AND SECURE ANY NECESSARY LICENSES.

THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION RELATED PERMITS AND ASSOCIATED FEES.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER, A MINIMUM OF FIVE (5) DAYS BEFORE BEGINNING WORK, HOLIDAYS AND WEEKENDS EXCLUDED. WHEN THE CONTRACTOR SUSPENDS OPERATIONS FOR TWO (2) OR MORE WORKING DAYS, HE SHALL NOTIFY THE ENGINEER, A MINIMUM OF TWENTY-FOUR (24) HOURS BEFORE RESUMING WORK.

AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UTILITY FACILITY SHOWN IN THE PLANS.

WHERE IT IS ANTICIPATED THAT WORK WILL CLOSE A STREET, THE CONTRACTOR SHALL INFORM THE RESIDENTS TO BE AFFECTED, THE OWNER, POLICE DEPARTMENT, THE FIRE DEPARTMENT, AND THE COUNTY ENGINEER AS TO THE EXTENT, NATURE, AND THE TIME OF THE ANTICIPATED WORK. NO STREET SHALL BE CLOSED UNTIL THE SCHEDULE IS APPROVED BY THE OWNER, VIA THE ENGINEER.

G09 - SANITARY FACILITIES
THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.

G10 - USE OF FIRE HYDRANTS
THE CONTRACTOR IS HEREBY NOTIFIED THAT THE USE OF FIRE HYDRANTS WILL NOT BE PERMITTED AND THAT THE USE OF FIRE HYDRANTS WILL RESULT IN THE CONTRACTOR'S PROSECUTION FOR THEFT OF A PUBLIC UTILITY. THE CONTRACTOR SHALL COORDINATE WITH THE DIVISION OF WATER TO ACCESS THE WATER SUPPLY.

G11 - LEGAL DIMENSION AND WEIGHT LIMITS
PURSUANT TO SECTIONS 5577.04 AND 5577.05 OHIO REVISED CODE (ORC), LEGAL LIMITS FOR DIMENSIONS AND WEIGHTS FOR HIGHWAY VEHICLES WERE AMENDED EFFECTIVE OCTOBER 1, 1992. THE AMENDED ORC MAY AFFECT THE CONTRACTOR'S COST FOR PERFORMING THE VARIOUS ITEMS OF WORK ON THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FACTOR ANY ADDITIONAL COSTS RESULTING FROM THE AMENDED ORC OR LOCAL LIMITS INTO THE UNIT BID PRICE FOR THE VARIOUS ITEMS OF WORK TO BE PERFORMED ON THIS PROJECT. NO ADDITIONAL REIMBURSEMENT FOR THE COSTS WILL BE PAID BY THE OWNER.

G12 - EMERGENCY PHONE NUMBER
THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A 24 HOUR TELEPHONE NUMBER TO READILY CONTACT A RESPONSIBLE PARTY IN THE CASE OF AN EMERGENCY. COSTS AND/OR DAMAGES INCURRED RELATED TO WORK PERFORMED BY THE CONTRACTOR IN SUCH EMERGENCIES ARE THE CONTRACTOR'S RESPONSIBILITY AND NOT THAT OF THE ENGINEER OR OWNER.

G13 - INCLUSIVE BID
THE CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT. COMPENSATION FOR ANY WORK WHICH DOES NOT HAVE A SPECIFIC PAY ITEM WILL BE INCLUDED IN THE PRICE BID FOR THE INDIVIDUAL ITEMS.

G14 - WORKING HOURS
WORKING HOURS ARE LIMITED TO 8:00AM TO 6:00PM MONDAY THROUGH FRIDAY. NO WORK SHALL BE PERFORMED ON THE WEEKEND OR HOLIDAYS WITHOUT PRIOR WRITTEN APPROVAL. IF THE CONTRACTOR NEEDS TO WORK ON A WEEKEND OR A HOLIDAY, HE SHALL SUBMIT HIS REQUEST STATING THE REASONS FOR WORKING THOSE DAYS TO THE ENGINEER A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO THE HOLIDAY OR WEEKEND.

G15 - RECORD DRAWINGS
THE CONTRACTOR SHALL PREPARE AND MAINTAIN A SET OF RECORD CONSTRUCTION DRAWINGS AS HIS WORK ON THE PROJECT PROGRESSES. THE RECORD DRAWINGS SHALL DOCUMENT ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS AS WELL AS DOCUMENT THE LOCATION AND EXTENT OF ANY UNFORESEEN CONDITIONS OR OBSTRUCTIONS. THE RECORD CONDITIONS SHALL BE SHOWN IN RED AND ANY PLAN CHANGES SHALL BE OUTLINED. THE CONTRACTOR SHALL BRING THE UP-TO-DATE RECORD DRAWINGS TO ALL CONSTRUCTION PROGRESS MEETINGS FOR THE ENGINEER'S REVIEW.

THE CONTRACTOR IS RESPONSIBLE FOR HAVING ONE (1) CLEAN SET OF THE RECORD CONSTRUCTION DRAWINGS SENT TO THE OWNER AFTER THE PROJECT IS COMPLETED. THE PLANS MUST INCLUDE THE FOLLOWING:

1. LOCATIONS, TOP-OF-CASTINGS, AND FLOW LINE ELEVATIONS FOR ALL SANITARY SEWER STRUCTURES INCLUDING LIFT STATION AND GRINDER PUMP STATIONS.
2. IDENTIFY ALL FIELD MODIFICATIONS TO THE APPROVED PLAN SET.
3. LOCATIONS OF ANY LOCATED UTILITIES WITHIN THE PROJECT CORRIDOR.
4. LOCATIONS OF ALL SANITARY SERVICE LATERALS.

G16 - NON-RUBBER TIRE VEHICLES
NO NON-RUBBER TIRE VEHICLES SHALL BE MOVED ON ANY STREETS EXCEPT AS NEEDED IN THE IMMEDIATE VICINITY OF THE WORK. ADDITIONAL EXCEPTIONS MAY BE GRANTED BY THE OWNER WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NON-RUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NON-RUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS OR OTHER MEANS AS APPROVED BY THE ENGINEER SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

G17 - PROTECTION AND RESTORATION OF PROPERTY
THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL PRIVATE AND PUBLIC PROPERTY IMPACTED BY THE CONTRACTOR'S OPERATIONS IN ACCORDANCE WITH ODOT 107.10. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR REPLACEMENT OF ANNUAL PLANTINGS.

GRAVEL DRIVES SHALL BE REPAIRED THE SAME DAY THEY ARE CROSSED. NO ADDITIONAL PAYMENT WILL BE MADE FOR DRIVE REPAIR.

PROPERTY RESTORATION NOTES HEREIN ARE DEFINED BY THE FOLLOWING:
TO BE REMOVED AND RESET (TBRRST) – REMOVE EXISTING ITEM AS NECESSARY TO INSTALL PROPOSED INFRASTRUCTURE, SALVAGING AS MUCH AS POSSIBLE, AND RESET TO LIKE OR BETTER CONDITION, TO THE SATISFACTION OF THE ENGINEER. ITEMS UNABLE TO BE SALVAGED SHALL BE REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER.

TO BE REMOVED AND REPLACED (TBRRPL) – REMOVE EXISTING ITEM AS NECESSARY TO INSTALL PROPOSED INFRASTRUCTURE AND REPLACE WITH NEW TO LIKE OR BETTER CONDITION, TO THE SATISFACTION OF THE ENGINEER.

G18 - WORK LIMITS
THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND/OR PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNER. ANY ADJOINING PROPERTIES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE SAME OR BETTER CONDITION. THIS INCLUDES GRADING, SEEDING, AND REMOVAL OF EXCESS MATERIAL.

G19 - MISCELLANEOUS WORK
ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

ALL EXCAVATION ON THIS PROJECT IS UNCLASSIFIED. THE CONTRACTOR SHALL MAKE ALL EXCAVATION OF WHATEVER NATURE NECESSARY FOR CONSTRUCTION OF THE PROPOSED UTILITY AND THEIR APPURTENANT STRUCTURES INCLUDED IN THIS PROJECT. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ROCK ENCOUNTERED DURING EXCAVATION. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT INCLUDED IN THE SPECIFICATIONS.

G20 - FINAL CLEAN-UP
THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATIONS AND RESTORE ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND ENGINEER.

G21 - SPECIFICATION DISCREPANCIES
SHOULD THERE BE DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL.

G22 - PAVEMENT CLEANING
THE CONTRACTOR IS HEREBY NOTIFIED THAT HE/SHE SHALL BE RESPONSIBLE FOR CLEANING OF STREETS OR ANY MUD, DIRT, SAND, GRAVEL, STONES, OR ANY KIND OF MATERIAL THAT HAVE DEPOSITED AS A RESULT OF HIS/HER OR SUBCONTRACTOR'S OPERATIONS. PAVEMENTS SHALL BE CLEANED AT THE END OF EACH WORK DAY OR MORE OFTEN AS DETERMINED BY THE OWNER OR ENGINEER.

G23 - WEATHER CONDITIONS
ALL CONSTRUCTION AND MATERIAL USAGE SHALL BE IN ACCORDANCE WITH CLIMATIC CONDITIONS ADDRESSED IN CURRENT ISSUE OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

G24 - WORK IN PAVEMENT
CONTRACTOR SHALL REPAIR ALL DRIVES TO EQUAL OR BETTER THAN ORIGINAL CONDITION. DRIVE OWNER'S SHALL BE NOTIFIED AT LEAST 5 DAYS IN ADVANCE OF WORK.

G25 - WORK WITHIN ROAD RIGHT-OF-WAY
ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED/PROTECTED DURING NON-WORKING HOURS.

ALL WORK REQUIRING MEN OR VEHICLES ON THE PAVEMENT OR SHOULDERS SHALL COMPLY FULLY WITH THE OHIO MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS AND ITEM 614 (MAINTAINING TRAFFIC) IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL BE JUST CAUSE FOR IMMEDIATE SUSPENSION OF THIS PERMIT UNTIL SUCH TIME THE PROPER TRAFFIC CONTROL IS IN PLACE.

CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLAN FOR ENGINEER'S APPROVAL PRIOR TO BEGINNING WORK.

THE USE OF TRAVEL LANES, STABILIZED OR UN-STABILIZED BERMS FOR THE STORAGE OF CONSTRUCTION MATERIALS OR DEPOSITING OF EXCAVATED MATERIAL IS NOT PERMITTED.

THE CONTRACTOR SHALL NOT ALLOW THE REMOVAL, DAMAGE OR RE-ERECTION OF ANY ODOT SIGNS ALONG THE PROPOSED PROJECT ROUTE. SHOULD ANY SIGNS OBSTRUCT THE PROPOSED INSTALLATION, THE CONTRACTOR SHALL NOTIFY ODOT NO LESS THAN 72 HOURS IN ADVANCE ALLOWING TIME TO SCHEDULE THE RELOCATION OF SAID OBSTRUCTION. THE CONTRACTOR SHALL FURTHER BE RESPONSIBLE FOR ANY AND ALL COST ASSOCIATED WITH THE REPLACING AND RELOCATING OF SAID SIGNS.

ALL AREAS WITHING THE R.O.W. WHERE VEGETATION HAS BEEN DISTURBED OR DESTROYED BY CONSTRUCTION ACTIVITIES SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH SS870.

WHERE APPLICABLE, ALL BORE PITS SHALL BE BE PLACED NO LESS THAN 10 FEET FROM THE EDGE OF PAVEMENT AND THE CASING PIPE SHALL EXTEND THE SAME, UNLESS OTHERWISE INDICATED ON THE PLANS.

DIRT OR MUD ON THE ROAD WILL NOT BE TOLERATED. CONTRACTOR SHALL KEEP ROAD CLEAN AT ALL TIMES.

G26 - CROP DAMAGE
ANY CONSTRUCTION ACTIVITIES COMPLETED IN A CROP FIELD MUST BE COORDINATED WITH THE LANDOWNER/TENANT. CONTRACTOR SHALL LIMIT CROP DAMAGE TO THE FURTHEST EXTENT POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR COMPENSATION TO THE LANDOWNER/TENANT FOR ANY CROP DAMAGE.

G27 - STORM WATER BMPS
CONTRACTOR SHALL PROVIDE STORM WATER PREVENTION MEASURES AS REQUIRED BY THE OEPA. REFER TO EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS.

G28 - CLEARING AND GRUBBING
CONTRACTOR IS RESPONSIBLE FOR ALL CLEARING AND GRUBBING (WITHIN CONSTRUCTIONS LIMITS) AS REQUIRED TO INSTALL THE SANITARY SEWER, GRINDER PUMP STATIONS, MAIN STREET LIFT STATION, TREATMENT PLANT AND TO COMPLETE SITE GRADING. CLEARING AND GRUBBING LIMITS ARE 10 FEET EACH SIDE OF CENTERLINE OF THE PROPOSED SEWER AND AS INDICATED ON DRAWINGS FOR OTHER CONSTRUCTION ACTIVITIES. STUMPS SHALL BE REMOVED AND ALL DEBRIS SHALL BE LEGALLY DISPOSED OF OFF-SITE, IN ACCORDANCE WITH SPECIFICATION SECTION 311000. NO TREE OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REMOVED WITHOUT WRITTEN PERMISSION FROM THE OWNER OR ENGINEER.

G29 - GRADING
FINAL GRADING SHALL BE CONSISTENT WITH GRADING PLAN AND/OR PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS. ALL DISTURBED NON-PAVED AREAS SHALL BE RESEEDED, TO PRODUCE A COVER SIMILAR TO THE ORIGINAL COVER.

G30 - WWTP SITE MAINTENANCE
SITES UTILIZED FOR THE PURPOSE OF STORING EQUIPMENT, EXCESS EXCAVATED MATERIALS, STRIPPED TOPSOIL, ETC., SHALL BE ENVIRONMENTALLY SUITABLE FOR SUCH PURPOSE AND SHALL BE APPROVED IN ADVANCE BY THE PROJECT ENGINEER. ENVIRONMENTALLY SUITABLE SITES SHALL BE LEVEL, DEVOID OF MATURE STANDS OF TREES AND ISOLATED FROM DRAINAGE FACILITIES AND FEATURES, WETLANDS, STREAMS AND STREAM CORRIDORS.

CLEARING AND GRUBBING SHALL NOT COMMENCE UNTIL SUCH TIME THAT THE CONTRACTOR IS PREPARED TO START CONSTRUCTION.

EXCAVATED MATERIALS SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

STRAW BALES, SILT FENCES, OR OTHER FILTERING DEVICES SHALL BE MAINTAINED AT AREAS OF STOCKPILED MATERIALS, EXCAVATED AREAS, CATCH BASINS AND OTHER STORM WATER INLET STRUCTURES IN CONSTRUCTION AREAS TO CONTROL SILT RUNOFF.

IF, AT ANY TIME, BEFORE THE EXPIRATION OF THE CONTRACT BOND ANY PART OF THE SEEDED AREA IS NOT IN GOOD CONDITION, THE CONTRACTOR SHALL FERTILIZE AND RESEED AS OFTEN AS NECESSARY TO GET A GOOD STAND OF GRASS.

INSTALL SEDIMENT BASINS AND DIVERSION DIKES BEFORE DISTURBING THE LAND THAT DRAINS INTO THEM.

INSTALL THE ABOVE EROSION AND SEDIMENT CONTROL PRACTICES, AS APPROPRIATE, REFERRING TO SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR SPECIFIC TECHNIQUES. THE PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL THE DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.

IF WORK IS SUSPENDED FOR ANY REASON, MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK. WHEN SEASONAL CONDITIONS PERMIT AND THE SUSPENSION OF WORK IS EXPECTED TO EXCEED ONE MONTH, PLACE TOPSOIL, FINE GRADE, SEED, FERTILIZER AND MULCH ALL DISTURBED AREAS LEFT EXPOSED WHEN WORK IS STOPPED, AS SPECIFIED HEREIN.

EXISTING PAVEMENT SHALL BE RESTORED IN ALL AREAS WHERE DISTURBED / DAMAGED.

PAVEMENT ON TRAVELED ROADWAYS IS TO BE KEPT CLEAN AT ALL TIMES FROM MUD AND MATERIAL.

G31 - SITE DEWATERING
ALL DEWATERING FLOWS SHALL BE KEPT FREE OF SILT, SEDIMENTS, DEBRIS, AND OTHER POLLUTANTS THROUGH APPROPRIATE MEANS (SETTLING BASINS, FILTER, ETC.), AND FOLLOWING THIS, THE FLOWS SHALL ONLY BE RELEASED DIRECTLY INTO STORM SEWERS, STREAM CHANNELS, OR OTHER STABILIZED DRAINAGE COURSES AND NOT ONTO EXPOSED SOILS, STEEP SLOPES, OR ANY OTHER SITE WHERE FLOWS COULD CAUSE FURTHER EROSION.

ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER LEVEL TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN OR AS DIRECTED BY THE DIRECTOR OR HIS REPRESENTATIVE. ANY PERSON INSTALLING ANY WELL, WELL POINT, PIT OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH OHIO REVISED CODE SECTION 1521.01 AND 1521.05

G32 - AIR & NOISE CONTROL
ALL MOTORIZED CONSTRUCTION EQUIPMENT SHALL BE EQUIPPED WITH PROPER EMISSIONS CONTROL EQUIPMENT AND INTAKE SILENCERS IN ACCORDANCE WITH FEDERAL SAFETY STANDARDS TO REDUCE EXCESSIVE NOISE.

PERIODICALLY CHECK EQUIPMENT AND MACHINERY FOR PROPER TUNING TO MINIMIZE EXHAUST EMISSIONS AND NOISE.

G33 - ARCHEOLOGICAL CONSIDERATIONS
THE CONTRACTOR(S) AND SUBCONTRACTOR(S) ARE REQUIRED UNDER OHIO REVISED CODE SECTION 149.53 TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHEOLOGICAL DISCOVERIES LOCATED IN THE PROJECT AREA, AND TO COOPERATE WITH THOSE ENTITIES IN ARCHEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS FOR DISCOVERIES IN THE PROJECT AREA. IN CASE OF ANY ARCHEOLOGICAL DISCOVERY OR DAMAGE TO A POTENTIAL HISTORIC RESOURCE, CONTACT THE OHIO HISTORIC PRESERVATION OFFICE AT 614-298-2000; THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

G34 - PROHIBITED CONSTRUCTION ACTIVITIES
USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.

DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH PERMISSION OF PROPERTY OWNERS. REFER TO SURFACE WATER DELINEATION REPORT PROVIDED IN BID DOCUMENTS. DISPOSAL OF MATERIAL WITHIN FLOOD PLAINS MAY BE ALLOWABLE ONLY WITH PERMISSION FROM OWNER AND ENGINEER, ASSUMING PROPER PERMITS ARE ACQUIRED.

INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT OUTSIDE THE PROPERTY LINES AND EASEMENT LIMITS.

PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS.

DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.

DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.

DISPOSAL OF TIRES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS. ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.

OPEN BURNING OF CONSTRUCTION DEBRIS.

STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY APPROVED BY THE ENGINEER FOR SAID PURPOSES.

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 PROJECT ENGINEER.

CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE PROJECT ENGINEER, AND CLOSING CLEAR ACCESS BY: (1) FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES; (2) THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR, (3) VEHICLES TO DRIVEWAYS WITHOUT PROVIDING ALTERNATE ACCESS.

G35 - ENDANGERED SPECIES
THE PROJECT IS WITHIN THE RANGE OF THE INDIANA BAT (MYOTIS SODALIS), A FEDERALLY LISTED ENDANGERED SPECIES, AND THE NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONAL

SANITARY SEWER NOTES

S00 - SANITARY SEWER WORK
ALL SANITARY SEWER PIPE, MANHOLES, FITTINGS, METHODS OF CONSTRUCTION, AND WORKMANSHIP FOR SANITARY SEWER AND APPURTENANCES SHOWN ON THESE PLANS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OWNER AND ODOT ITEMS 611, CURRENT ON THE DATE OF CONTRACT UNLESS THE REQUIREMENTS OF SUCH RULES AND REGULATIONS ARE UPGRADED BY THE FOLLOWING NOTES OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

S01 - WATERLINE SEPARATION
SEWER MAINS, MANHOLES, SEPTIC TANKS, AND/OR SUBSOIL TREATMENT SYSTEMS SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAINS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

WHENEVER A WATER LINE AND SEWER MUST CROSS, THE SEWER MAIN (STORM OR SANITARY) SHALL BE LAID SUCH THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER LINE MEASURED BETWEEN THE OUTSIDE PIPE WALLS. IN CASES WHERE THE REQUIRED SEPARATION CANNOT BE MAINTAINED, CLOSER INSTALLATION MAY BE PERMITTED ON A CASE-BY-CASE BASIS ONLY AFTER RECEIPT OF WRITTEN CONCURRENCE FROM THE OHIO EPA DIVISION OF DRINKING WATER. CURRENT RECOMMENDED STANDARDS FOR WATER WORKS, SECTIONS 8.8.2 AND 8.8.3 SHALL GOVERN AS TO THE SEPARATION OF WATER LINE FROM CONTAMINATION SOURCES. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 611 ITEMS.

S02 - BEDDING & BACKFILL
ALL OPEN TRENCHED SANITARY SEWER PIPE SHALL BE BEDDED WITH #57 STONE PER AASHTO M43 AND SHALL COMPLY WITH ASTM D-2321. TRENCH BACKFILL SHALL BE COMPACTED BACKFILL AS PER ODOT ITEM 611.06. REFER TO TRENCH DETAILS HEREIN AND TECHNICAL SPECIFICATION SECTIONS 312000 AND 333000 FOR ADDITIONALBEDDING AND BACKFILL REQUIREMENTS.

TOPSOIL SHALL BE WHERE REQUIRED TO MATCH ORIGINAL, FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMY CHARACTER, FREE FROM ADMIXTURE OF SUBSOIL, HEAVY CLAY, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIALS.

S03 - MATERIALS
ALL SANITARY SEWERS, FORCE MAINS, GRINDER PUMP STATIONS, AND FACTORY ASSEMBLED AIR RELEASE STATIONS SHALL BE INSTALLED WITH STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. GRAVITY SANITARY SEWER PIPE SHALL BE INSTALLED PER ODOT ITEM 611, TYPE B OR C CONDUIT.

ALL GRAVITY SANITARY SEWER SHALL BE PVC PIPE. FOR SIZES UP TO 15 INCHES IN DIAMETER, PIPE SHALL CONFORM TO ASTM D-3034, SDR 35 WITH A CELL CLASSIFICATION OF ASTM B OR C 12454. FOR SIZES 18 INCHES AND LARGER, THE PVC PIPE SHALL CONFORM TO ASTM F-679 OR ASTM F-794 WITH A CELL CLASSIFICATION OF ASTM B OR C 12454. BELL AND SPIGOT JOINTS SHALL CONFORM TO ASTM D-3212.
FOR SIZES UP TO 15 INCH DIAMETER, PVC PIPE FITTINGS SHALL CONFORM, TO SDR 35 GASKETED HEAVY WALL SEWER FITTINGS MEETING ASTM D-3034 AND ASTM F-1336 WITH A CELL CLASSIFICATION OF ASTM B OR C 12454. FOR SIZES 18 INCHES AND LARGER, PVC PIPE FITTINGS SHALL CONFORM TO SDR 35 GASKETED SEWER FITTINGS MEETING ASTM F-679 AND ASTM F-1336.

SERVICE LATERAL CONNECTIONS SHALL CONSIST OF PVC PIPE (ASTM D-3034, SDR 35, 707.45) OF A SIZE NOT LESS THAN SIX (6) INCHES NOMINAL DIAMETER AND SHALL BE BUILT TO AVOID INTERFERENCE WITH PROPOSED UTILITIES WHEN CONNECTING TO THE SANITARY SERVICE. FITTINGS SHALL MATCH SERVICE LATERAL MATERIAL.

THE MAIN STREET FORCE MAIN SHALL BE PVC PLASTIC PIPE, GREEN IN COLOR, ASTM D-2441 SDR 21 WITH BELL AND SPIGGOT JOINTS CONFORMING TO ASTM F-477.

LOW-PRESSURE SEWER FORCE MAIN PIPE SHALL BE HDPE DR 11 (IPS) AND SHALL CONFORM WITH ASTM F-714. BUTT FUSION JOINTS SHALL COMPLY WITH ASTM F-2620 OR ASTM F-1290. PRESSURIZED SERVICE LATERAL PIPE SHALL BE PE DR 11 OR 9 (CTS) (PER ADDENDUM NO. 5, ISSUED 05/26/22) AND SHALL CONFORM TO ASTM D-2737. JOINTS SHALL CONFORM TO ASTM D-2657. ALL LOW-PRESSURE FORCE MAIN PIPE SHALL BE INSTALLED ACCORDING TO ASTM D-2321 AND ASTM F-1962. ALL PIPE SHALL HAVE A GREEN STRIPE.

GREEN NON-DETECTABLE TAPE SHALL BE PLACED WITH 18" COVER OVER ALL SEWER LINES. ALL MANHOLE LIDS SHALL BE MARKED "SANITARY SEWER".

S04 - SERVICE CONNECTIONS
SERVICES OR HOUSE CONNECTIONS SHALL NOT BE CONNECTED TO THE LATERAL OR MAIN LINE SEWERS SHOWN HEREON UNTIL ENGINEER APPROVAL OF SAID LATERAL OR MAIN LINE SEWER HAS BEEN RECEIVED.

CONTRACTOR SHALL BE RESPONSIBLE FOR SANITARY SEWER LATERAL CONNECTION TO SEWER MAIN, CLEANOUT INSTALLATION, AND SEWER LATERAL TO THE PROPERTY LINE AS SHOWN IN THE SERVICE CONNECTION AND CLEANOUT DETAIL (SEE NOTE S11, THIS SHEET). OTHERS SHALL BE RESPONSIBLE FOR SERVICE LATERAL / GRINDER PUMP STATION CONNECTION TO BUILDING.

SANITARY SERVICE LATERALS SHALL BE INSTALLED AT A MINIMUM OF 2.08% SLOPE; 42" MINIMUM COVER.

S05 - CONNECTION TO EXISTING MANHOLE
WHERE NEW SEWERS ARE CONNECTED TO EXISTING MANHOLES, THE CONTRACTOR SHALL CORE DRILL ANY NEW OPENINGS INTO THE EXISTING MANHOLE. THE PIPE TO MANHOLE SHALL HAVE A WATER TIGHT JOINT OF A FLEXIBLE RUBBER GASKET EXPANSION BOOT. THE CONTRACTOR SHALL THEN CLEAN THE MANHOLE OF ALL DEBRIS BEFORE MAKING THE CONNECTION. THE CONTRACTOR SHALL CONSTRUCT A SEMI-CIRCULAR, CONCRETE CHANNEL TO THE NEW PIPE TO PROVIDE SMOOTH, UNINTERRUPTED FLOW THROUGH THE MANHOLE. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE ITEMS BID FOR FURNISHING AND INSTALLING PIPE.

S06 - PROHIBITED CONNECTIONS TO SANITARY SEWER SYSTEM
ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

S07 - PROFILE & MANHOLE LOCATIONS
PROFILE IS SHOWN ALONG SEWER CENTERLINE. PROFILES ARE NOT SHOWN ON ALL INLET CONNECTOR SEWERS. THE STATION AND OFFSET OF THE MANHOLES SHOWN ON THE PLANS ARE TO THE CENTER OF THE MANHOLE BASE.

ALL SANITARY MANHOLES SHALL BE STAKED UNDER THE DIRECTION OF A REGISTERED SURVEYOR.

S08 - EXISTING SEWERS AND STRUCTURES
THE CONTRACTOR SHALL REPLACE TO THE SATISFACTION OF THE ENGINEER ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS AND APPURTENANCES REMOVED OR DAMAGED DURING CONSTRUCTION. THE ABOVE IS NOT APPLICABLE TO STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM EXISTING MANHOLES AND CATCH BASINS AND VARIOUS SEWER PIPE WHICH ARE CONNECTED IN THE NEW SYSTEM.

S09 - SANITARY SEWER-MANHOLE CONNECTIONS
THE SANITARY SEWER PIPE TO MANHOLE CONNECTIONS SHALL BE OF FLEXIBLE WATERTIGHT JOINT OF APPROVED MANUFACTURE. THE JOINT MAY BE OF THE FOLLOWING DESIGN (A) RUBBER SLEEVE WITH STAINLESS STEEL BANDING, (B) RUBBER GASKET COMPRESSION OR (C) RUBBER GASKET EXPANSION. PAYMENT FOR THIS WORK AND MATERIALS SHALL BE INCLUDED WITH THE ITEM BID FOR FURNISHING AND INSTALLING MANHOLES.

S10 - SANITARY TESTING
UPON CONSTRUCTION COMPLETION, GRAVITY SANITARY SEWER SHALL BE AIR TESTED IN ACCORDANCE WITH ASTM F-1417.

CONTRACTOR SHALL MANDREL TEST ALL ABS OR PVC PIPE FOR DEFLECTION A MINIMUM OF 30 DAYS AFTER INSTALLATION. TESTING SHALL BE IN ACCORDANCE WITH ASTM D-3034. THE MANDREL MUST BE AT LEAST 95% OF THE BASE INSIDE DIAMETER OF THE PIPE.

ALL NEW MANHOLES SHALL BE NEGATIVE AIR (VACUUM) TESTED AS DESCRIBED IN ASTM C-1244. ALL TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER OR A REPRESENTATIVE OF THE OWNER.

INFILTRATION / EXFILTRATION AND WATER TESTING IS PERMITTED IN LIEU OF AIR TESTING OF GRAVITY SEWER AND VACUUM TESTING OF MANHOLES.

ALL NEW FORCE MAINS SHALL BE HYDROSTATICALLY TESTED PER AWWA C-605 (PVC) AND AWWA C-901 (PE), AS APPLICABLE. IF THERE ARE INDICATIONS OF LEAKS, CONTRACTOR SHALL LOCATE AND REPAIR THEM AT HIS EXPENSE UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE.

IF UNSATISFACTORY TESTING RESULTS ARE ACHIEVED, CAMERA INSPECT PROBLEMATIC SECTION OF SEWER, MAKE NECESSARY REPAIRS, AND RETEST UNTIL RESULTS MEET CRITERIA. PIPE REPAIR CLAMPS ARE NOT PERMITTED.

S11 - SANITARY LATERAL LOCATION & ELEVATION FIELD VERIFICATION
PROPOSED SERVICE LATERAL LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY REQUIRE FIELD LOCATING AFTER CONSULTATION WITH THE LANDOWNER. CONTRACTOR SHALL COORDINATE WITH THE LANDOWNER AND ENGINEER TO DETERMINE SERVICE LATERAL LOCATIONS.

CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY LATERAL LOCATIONS AND ELEVATIONS WITHIN STRUCTURES REQUIRING SEWER SERVICE TO ENSURE PROPOSED SEWER MAIN / GRINDER PUMP STATION LOCATION AND DEPTH IS SUFFICIENT FOR SERVICE, PRIOR TO INSTALLATION OF SEWER MAIN / GRINDER PUMP STATION. RELAY RELEVANT INFORMATION OF ANY STRUCTURES WITH INSUFFICIENT DEPTHS FOR SEWER SERVICE TO ENGINEER FOR CONSIDERATION OF DESIGN CHANGES.

CONTRACTOR SHALL STAKE PROPOSED SANITARY LATERAL AND GRINDER PUMP STATION LOCATIONS FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.

S12 - TRENCH DAMS
CONTRACTOR SHALL PLACE A MINIMUM OF ONE (1) TRENCH DAM ON PIPE RUNS BETWEEN MANHOLES OR STRUCTURES COMPRISED OF NATIVE CLAY, IMPERVIOUS SOILS OR AQUABLOK®. POLYETHYLENE ANTI-SEEP COLLARS ARE ALSO ACCEPTABLE. TRENCH DAMS SHALL BE 6 FEET LONG, AS MEASURED ALONG THE SEWER CENTERLINE, CONSTRUCTED AGAINST THE UNDISTURBED TRENCH SIDES AND BOTTOM, AND CAREFULLY COMPACTED TO A HEIGHT OF 36 INCHES ABOVE THE CROWN OF PIPE, OR AS SPECIFIED BY THE MANUFACTURER (WHERE APPLICABLE).

S13 - PRIVATE LATERAL CONNECTIONS & SEPTIC SYSTEM ABANDONMENT
PRIVATE SANITARY LATERALS SHALL BE CONNECTED TO THE NEW SANITARY SEWER SYSTEM AND EXISTING SEPTIC/TREATMENT SYSTEMS SHALL BE ABANDONED BY OTHERS AS REQUIRED BY THE LATEST EDITION OF THE HARRISON COUNTY WATER & SEWER DISTRICT'S SEWER USE RULES AND REGULATIONS.

WATERLINE NOTES

W00 - WATERLINE WORK
ALL WATER PIPE, FITTINGS, METHODS OF CONSTRUCTION, AND WORKMANSHIP FOR WATER LINES AND APPURTENANCES SHOWN ON THESE PLANS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OWNER, AND ODOT ITEM 638 CURRENT ON THE DATE OF CONTRACT UNLESS THE REQUIREMENTS OF SUCH RULES AND REGULATIONS ARE UPGRADED BY THE FOLLOWING NOTES OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

OPERATION OF IN SERVICE VALVES SHALL BE BY WATER DIVISION PERSONNEL ONLY. A 72 HOUR NOTICE SHALL BE REQUIRED FOR SHUT DOWNS.

W01 - CONNECTING WATERLINES
THE CONTRACTOR SHALL CONNECT ALL EXISTING MAINS, SERVICE LINES, ETC. TO THE PROPOSED LINE. THE CONNECTION OF EXISTING WATERLINES AND SERVICES TO PROPOSED WATERLINES SHALL BE DONE IN A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO THOSE WITH AFFECTED SERVICES. WORK CONCERNING THE DISCONNECTION AND RECONNECTION OF EXISTING WATERLINES SHALL BE DONE BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M., OR AS DIRECTED BY THE ENGINEER. NO SUCH WORK SHALL BEGIN UNTIL THE VILLAGE FIRE DEPARTMENT, THE OWNER, AND THE RESIDENTS WHOSE SERVICES WILL BE AFFECTED ARE ALL NOTIFIED OF THE EXTENT, NATURE, AND TIME OF THE ANTICIPATED WORK AND THE METHOD AND SCHEDULE OF SUCH WORK HAS BEEN APPROVED BY THE ENGINEER. THE ABOVE PARTIES SHALL BE NOTIFIED NO LESS THAN 48 HOURS PRIOR TO DISRUPTION OF SERVICE.

W02 - CONFLICTS
WHEN CONFLICTS IN GRADE BETWEEN WATER LINES AND GRAVITY SEWERS OR SEPTIC TANKS ARE FOUND DURING CONSTRUCTION, THE WATER LINES SHALL BE INSTALLED TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET AND A MINIMUM VERTICAL SEPARATION OF 18 INCHES FROM THE SEWER LINE WITH THE WATER MAIN PREFERABLY INSTALLED ABOVE THE SEWER. AT LOCATIONS OF CROSSING THE WATER LINE JOINTS SHALL BE LOCATED TO BE EQUIDISTANT FROM EITHER SIDE OF THE SEWER LINE.

W03 - MINIMUM DEPTH
WATER LINES SHALL BE LAID WITH A MINIMUM OF 4 FEET OF COVER FROM THE EXISTING OR PROPOSED GROUND AND 5 FEET BELOW ROADWAY AND STREAMS, TO THE TOP OF THE WATERLINE, UNLESS OTHERWISE SHOWN OR APPROVED.

W04 - LINE CROSSING
AT ALL POINTS OF CROSSING OF WATER MAINS AND SEWERS, THE BACKFILL SHALL BE GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE. IN ADDITION TO THE GRANULAR BACKFILL, HARDWOOD TIMBER SUPPORT BEAMS SHALL BE PLACED UNDER THE UPPER PIPE TO SPAN THE TRENCH. IN LIEU OF THE TIMBER SUPPORT BEAMS, CONTROLLED DENSITY FILL MAY BE USED. INCLUDE COST WITH VARIOUS PIPE ITEMS.

W05 - DISINFECTION
ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF A.W.W.A. C-651. SPECIAL ATTENTION IS DIRECTED TO THE REQUIREMENTS OF FLUSHING AND CHLORINATING VALVES AND FIRE HYDRANTS.

W06 - TESTING
A HYDROSTATIC TEST AS REQUIRED IN AWWA C-901 SHALL BE APPLIED TO THE WATER MAIN. IF THERE ARE INDICATIONS OF LEAKS UNDER THIS PRESSURE TEST, THE CONTRACTOR SHALL LOCATE AND REPAIR THEM AT HIS COST AND EXPENSE UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE. ALL BENDS & JOINT DEFLECTIONS SHALL HAVE CONCRETE BACKING. ALL VALVES SHALL HAVE SUPPORTS AND BE IN ACCORDANCE WITH STANDARD DRAWINGS.

W07 - VALVE EXTENSION
IF THE TOP OF THE OPERATING NUT IS LOWER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO BETWEEN 24 INCHES AND 36 INCHES OF FINISHED GRADE ELEVATION.

W08 - SERVICE CONNECTIONS
NO SERVICE CONNECTIONS SHALL BE MADE TO THE PUBLIC WATER SYSTEM WHERE A PROPERTY HAS A CROSS-CONNECTION TO AN AUXILIARY WATER SYSTEM. OWNER WILL INSPECT SERVICE LINES PRIOR TO PROVIDING SERVICE.

CONTRACTOR SHALL INSTALL NEW WATER SERVICE LINES AND APPURTENANCES FROM THE WATER MAIN TO THE PROPERTY LINE. SERVICE CONNECTION FROM THE PROPERTY LINE TO THE END USER SHALL BE COMPLETED BY OTHERS.

PROPOSED WATER SERVICE LINES SHALL BE SIZE AND MATERIAL AS SPECIFIED HEREON. MAINTAIN 4-FEET MINIMUM COVER AND 5-FEET MINIMUM COVER BENEATH ROADWAY BORINGS.

W09 - INDIVIDUAL BOOSTER PUMPS
NO INDIVIDUAL BOOSTER PUMPS SHALL BE PLACED ON SERVICE CONNECTIONS WHICH ARE SUPPLIED BY THE MAIN PUBLIC SYSTEM. OWNER WILL INSPECT SERVICE LINES PRIOR TO PROVIDING SERVICE.

W10 - MINIMUM PRESSURE
A MINIMUM WATER PRESSURE OF 35 PSI SHALL BE MAINTAINED AT ALL SERVICE TAP LOCATIONS. A MINIMUM WATER PRESSURE OF 20 PSI SHALL BE MAINTAINED AT ALL POINTS OF THE SYSTEM.

W11 - FLUSHING OF NEW LINE
CONTRACTOR SHALL COORDINATE ALL FLUSHING OPERATIONS WITH OWNER. HIGH FLOW RATE MAY RESULT IN LOW PRESSURE THROUGHOUT THE SYSTEM.

W12 - CROSS-CONNECTIONS
THERE SHALL BE NO CONNECTION BETWEEN THE DISTRIBUTION SYSTEM AND ANY PIPES, PUMPS, HYDRANTS, OR TANKS WHEREBY UNSAFE WATER OR OTHER CONTAMINATING MATERIALS MAY BE DISCHARGED OR DRAWN INTO THE SYSTEM.

SURVEY NOTES

SV00 - SURVEYOR NOTES
THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED TO THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.

DATE OF FIELD WORK: APRIL 2020 THROUGH MAY 2020
EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON.

SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.

SV01 - BASIS OF BEARINGS
THE BEARINGS SHOWN HEREIN ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM. NORTH SYSTEM, NAD83, GEOID12A.

SV02 - CONTROL POINTS
AS PER THE TOPOGRAPHIC SURVEY PREPARED BY HULL & ASSOCIATES, LLC THE CONTRACTOR AND/OR HIS SURVEYOR SHALL BE RESPONSIBLE TO CROSS CHECK ALL CONTROL FOR DISTURBANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TABLE 1 SUMMARIZES THE NORTHING, EASTING, ELEVATION, AND DESCRIPTION OF EACH CONTROL POINT.

BASIS OF BEARING: TRUE NORTH, BASED ON OBSERVATIONS, GPS DATA COLLECTED WITH TRIMBLER8 UNIT VRS CORRECTION ON OHIO STATE PLANE NORTH ZONE COORDINATE SYSTEM, NAD 1983, NAVD 1988, GEOID 12A.

TABLE 1 – CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	197986.61	2312530.95	877.31	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
2	198328.31	2312676.75	881.63	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
3	198498.46	2312390.50	910.23	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
4	198800.51	2312421.39	940.78	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
5	199158.46	2312530.47	982.2	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
6	199388.10	2312651.85	1004.53	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
7	199901.74	2312582.47	1005.9	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
8	200311.74	2312484.85	1007.35	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
9	200836.58	2312364.50	1033.26	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
10	200401.92	2312900.79	1004.45	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
11	199986.60	2312945.62	994.25	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
12	200898.63	2312827.48	1017.04	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
13	200588.73	2313399.50	990.42	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
14	201041.00	2313249.96	1006.01	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
15	198906.41	2312943.19	911.99	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
16	199283.81	2312994.10	938.82	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
17	201147.76	2313691.92	1004.05	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
18	201501.63	2313376.39	1049.787	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
19	201206.64	2314102.90	1005.29	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
20	200745.67	2314052.34	1001.32	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP
21	200662.59	2313689.72	984.94	5/8" REBAR WITH YELLOW PLASTIC TRAVERSE CAP

CONSTRUCTION SEQUENCE NOTES

CS00 - CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL VIDEO ALL STREETS, ALLEYS, AND SITES WHERE WORK WILL OCCUR. THE VIDEO SHALL CLEARLY RECORD THE EXISTING CONDITIONS. VIDEO SHALL BE PROVIDED TO THE OWNER AND ENGINEER ELECTRONICALLY OR OTHER ACCEPTABLE METHOD PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY LATERAL LOCATIONS AND ELEVATIONS WITHIN STRUCTURES REQUIRING SEWER SERVICE TO ENSURE PROPOSED SEWER / GRINDER PUMP STATION LOCATION AND DEPTH IS SUFFICIENT FOR SERVICE, PRIOR TO INSTALLATION OF SEWER / GRINDER PUMP STATION. RELAY RELEVANT INFORMATION OF ANY STRUCTURES WITH INSUFFICIENT DEPTHS FOR SEWER SERVICE TO ENGINEER FOR CONSIDERATION OF DESIGN CHANGES.
3. AHEAD OF SANITARY SEWER INSTALLATION, CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITY LOCATIONS AND ELEVATIONS TO ENSURE MINIMUM SEPARATION DISTANCES BETWEEN EXISTING UTILITIES AND PROPOSED SEWER WILL BE MET. COORDINATE WITH ENGINEER IF CONFLICTS ARE IDENTIFIED. SOME WATER SERVICE LINES WERE NOT ABLE TO BE LOCATED AT THE TIME OF SURVEY. COORDINATE WITH BUILDING OWNER AND UTILITY OWNER TO LOCATE ANY MISSING WATER SERVICE LINES NOT SHOWN ON DRAWINGS FOR EACH BUILDING.
4. CONTRACTOR SHALL STAKE PROPOSED SANITARY LATERAL AND GRINDER PUMP STATION LOCATIONS FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
5. INSTALL, TEST, AND START UP SANITARY SEWER, GRINDER PUMP STATIONS, WASTEWATER TREATMENT PLANT, AND LIFT STATION.

GEOTECHNICAL BORING NOTES

TABLE 2 BELOW SUMMARIZES THE GEOTECHNICAL BORING LOCATIONS COLLECTED BETWEEN JUNE 4, 2020 THROUGH JUNE 9, 2020 AND JANUARY 13, 2021 THROUGH JANUARY 15, 2021. REFER TO THE GEOTECHNICAL EXPLORATION REPORT PREPARED BY HULL & ASSOCIATES, LLC FOR ADDITIONAL GEOTECHNICAL INFORMATION.

TABLE 2 – GEOTECHNICAL BORINGS

BORING #	NORTHING	EASTING
B20-01	201677.09	2312121.43
B20-02	201215.25	2312210.35
B20-03	200611.63	2312373.34
B20-04	200362.86	2312611.50
B20-05	199815.50	2312553.03
B20-06	199375.11	2312612.60
B20-07	198800.03	2312448.64
B20-08	198355.26	2312585.11
B20-08A	198355.30	2312587.90
B20-09	198310.39	2312711.54
B20-10	198327.81	2313012.79
B20-11	198273.73	2313082.35
B20-12	201663.97	2312663.51
B20-13	201257.30	2312737.14
B20-14	200893.17	2312649.54
B20-15	200158.15	2312976.15
B20-16	201392.36	2313192.22
B20-17	200968.42	2312998.21
B20-18	200747.76	2313162.79
B20-19	200542.86	2313384.97
B20-20	201931.84	2313466.70
B20-21	201558.31	2313616.13
B20-22	201403.93	2313880.61
B20-23	201088.55	2313479.76
B20-24	200916.96	2313866.84
B20-25	200603.96	2313762.62
B20-26	200705.07	2314084.38
B20-27	201230.70	2314151.51
B20-28	201377.82	2314556.97
B20-29	200761.79	2314538.07
B20-30	198231.91	2312880.19
B21-31	199408.64	2312661.21
B21-32	200088.75	2312496.56
B21-33	200452.55	2313050.67
B21-34	200562.84	2313788.81
B21-34R	200566.96	2313797.14
B21-35	201074.42	2312761.42

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	AJP
Drawn By:	AJP
Check By:	CLG
Scale:	
Issue Date:	AUGUST 2025

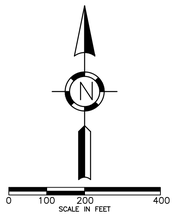
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GENERAL NOTES

Sheet Number:

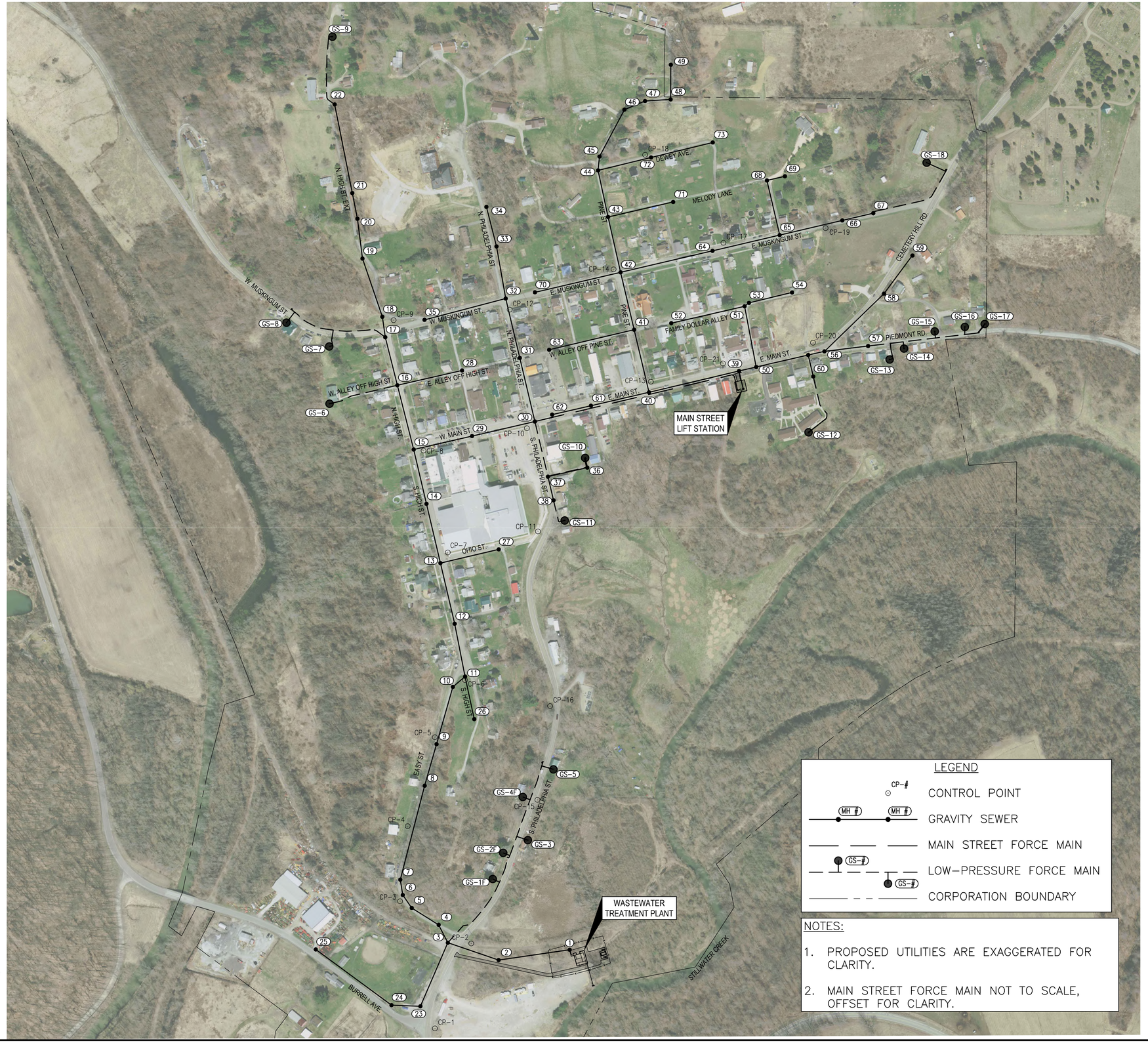
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COLLECTION SYSTEM STRUCTURE INDEX

SHEET	STRUCTURE
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C-PP-1	MH-1, 2
C-PP-2	MH-3, 4, 5, 6, 7
C-PP-3	MH-8
C-PP-4	MH-9, 10, 11
C-PP-5	MH-12, 13
C-PP-6	MH-14, 15
C-PP-7	MH-16, 17
C-PP-8	MH-18, 19
C-PP-9	MH-20, 21
C-PP-10	MH-22
C-PP-11	MH-3, 23
C-PP-12	MH-24, 25
C-PP-13	MH-11, 26
C-PP-14	MH-13, 27
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C-PP-20	MH-32, 35
C-PP-21	MH-36, 37, 38; GS-10
C-PP-22	MAIN STREET LS; MH-39, 40
C-PP-23	MH-41
C-PP-24	MH-42, 43
C-PP-25	MH-44, 45, 46, 47
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C-PP-38	MH-66, 67
C-PP-39	MH-65, 68, 69
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C-PP-43	MH-73
MAIN STREET FORCE MAIN	
C-PP-44	MAIN STREET FM; MH-30
C-PP-45	MAIN STREET FM
C-PP-46	MAIN STREET FM, LS
LOW-PRESSURE SEWER	
C-PP-47	MH-3; GS-1F, 2F
C-PP-48	MH-3; GS-3, 4F, 5
C-PP-49	MH-16; GS-6
C-PP-50	MH-17; GS-7, 8
C-PP-51	MH-22; GS-9
C-PP-52	MH-30; GS-10
C-PP-53	MH-38; GS-11
C-PP-54	MH-60; GS-12
C-PP-55	MH-57; GS-13, 14, 15, 16, 17
C-PP-56	MH-67; GS-18



LEGEND

- CP-# — CONTROL POINT
- MH # — MH # — GRAVITY SEWER
- MAIN STREET FORCE MAIN
- GS-# — GS-# — LOW-PRESSURE FORCE MAIN
- CORPORATION BOUNDARY

NOTES:

1. PROPOSED UTILITIES ARE EXAGGERATED FOR CLARITY.
2. MAIN STREET FORCE MAIN NOT TO SCALE, OFFSET FOR CLARITY.

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	AS NOTED
Issue Date:	AUGUST 2025

Sheet Title:

OVERALL SITE PLAN

Sheet Number:

G-7

Freeport Lateral Depth (as-builts)

ID #	Plan Sheet	Address:	Depth at Conn.
1	C-PP-2	218 Easy St- Phillips	6'-1"
2	C-PP-3	212 Easy St- Dickey	6'-8"
3	C-PP-3	338 S High St- Ketchum	6'-0"
4	C-PP-4	51 Easy St- UM Church	11'0"
5	C-PP-4	223/225 S High St-Gross (Lot 45)	6'-5"
6	C-PP-5	223/225 S High St-Gross (Lot 44)	4'-1"
7	C-PP-5	221 S High St- Toland	4'-7"
8	C-PP-5	219 S High St- Stine	4'-9"
9	C-PP-5	220 S High St- Smith	8'-4"
10	C-PP-5	218 S High St- Koch	8'-0"
11	C-PP-5	217 S High St- Furmanski	5'-9"
12	C-PP-5	216 S High St- Koch FH	10'-0"
13	C-PP-5	112 S High St- Bardall	6'-2"
14	C-PP-5	114 S High St- Matthews	10'-0"
15	C-PP-6	110 S High St- Miller	10'-4"
16	C-PP-6	106 S High St- Baker	11'-3"
17	C-PP-6	104 S High St- Baker	11'-3"
18	C-PP-6	102 S High St- Stubblefield	11'-8"
19	C-PP-7	101 N High St- Bell	8'-2"
20	C-PP-7	120 W Main St- Walters	17'-0"
21	C-PP-7	103 N High St- Green	8'-6"
22	C-PP-7	104 N High St- Bardall/Smith	5'-2"
23	C-PP-7	19 N High St- Brill	8'-3"
24	C-PP-7	107 N High St- Piatt	7'-5"
25	C-PP-7	111 N High St- Bratun	8'-4"
26	C-PP-7	299 W Muskingum St (Rowe)	7'-5"
27	C-PP-8	214 W Muskingum (High St Ext) (Stull)	4'-5"
28	C-PP-8	High St Ext- Simpson	4'-6"
29	C-PP-8	High St Ext- Sable	6'-0"
30	C-PP-9	High St Ext- Bardall	9-0"
31	C-PP-10	High St Ext- Sticht	7'-11"
32	C-PP-10	High St Ext- Doane	7'-2"
33	C-PP-12	Burrell Ave- Village Park	5'-10"
34	C-PP-12	Burrell Ave- Hartz	5'-6"
35	C-PP-12	403 Burrell Ave- Jones Eq	5'-8"
36	C-PP-13	327 S High St- Ketchum	9'-2"
37	C-PP-13	329 S High St- Fritter	9'-3"
38	C-PP-14	215 S High St- Lawver	7'-10"
39	C-PP-14	Ohio St- Freeport Press	6'-7"
40	C-PP-14	Ohio St- Freeport Press	4'-4"
40A	C-PP-14	Ohio St- Freeport Press	4'-0"
41	C-PP-15	104 N High St- Lewis	5'-2"
42	C-PP-15	109 N High St- Paul	5'-1"
43	C-PP-15	109 W Muskingum St- Floyd	5'-2"
44	C-PP-15	107 W Muskingum St	4'-3"
45	C-PP-15	105 W Muskingum St- Birney	6'-0"
46	C-PP-16	118 W Main St- Garbrandt	6'-0"
47	C-PP-16	116 W Main St- Hoels	5'-10"
48	C-PP-16	~~Eliminated~~	
49	C-PP-16	121 W Main St- Press	5'-10"
50	C-PP-16	114 W Main St- Church	10'-3"
51	C-PP-16	117 W Main St- Church	6'-0"
52	C-PP-16	110 W Main St- Health Center	6'-1"
53	C-PP-16	104-108 W Main St- Stine	6'-2"
54	C-PP-16	102 W Main St- Church	6'-0"
55	C-PP-17	101 N Philadelphia St- Library	7'-3"
56	C-PP-17	103 N Philadelphia St- Stine	7'-0"
57	C-PP-17	105 N Philadelphia St- Scheutzow	7'-7"
58	C-PP-17	107 N Philadelphia St	4'-8"
59	C-PP-17	108 N Philadelphia St- Foster	9'-5"
60	C-PP-18	110 N Philadelphia St- Butler	9'-6"
61	C-PP-18	101 W Muskingum St- Walton	8'-0"
62	C-PP-18	111 N Philadelphia St- Fouts/Holstein	4'-7"
63	C-PP-19	Old School/RV Park (Jones)	4'-5"
64	C-PP-19	Old School/RV Park	4'-0"
65	C-PP-19	Old School/RV Park	5'-11"
66	C-PP-19	Old School/RV Park	6'-6"
67	C-PP-20	109 W Muskingum St- Jones	5'-2"
68	C-PP-20	103 W Muskingum St- Smart	7'-1""
69	C-PP-20	104 W Muskingum St- Dunlap	6'-10"
70	C-PP-20	108 W Muskingum St- Toland	4'-6"
71	C-PP-21	Garage Lateral (by GS-10)	4'-5"
72	C-PP-21	101 S Philadelphia St- Post Office	5'-2"
73	C-PP-21	107 S Philadelphia St (Deweese)	7'-0"
74	C-PP-21	109 S Philadelphia St (Meade)	3'-8"
75	C-PP-22	233 E Main St- Morrison	7'-7"
76	C-PP-22	231 E Main St- Hokes	6'-4"
77	C-PP-22	228 E Main St- Baker	7'-6"
78	C-PP-22	226 E Main St- Borland	9'-0"
79	C-PP-22	224 E Main St- Wissman	9'-0"
80	C-PP-23	100 Pine St- Leggett (Lot 77)	6'-9"
81	C-PP-23	102 Pine St- McBride (Lot 77)	7'-8"
82	C-PP-23	104 Pine St- Church (Lot 90)	8'-4"
83	C-PP-23	110 E Muskingum St- Jones (Lot 89)	7'-0"

Freeport Lateral Depth (as-builts)

ID #	Plan Sheet	Address:	Depth at Conn.
84	C-PP-24	111 E Muskingum St- Foster (Lot 102)	5'-8"
85	C-PP-24	207 Pine St- Dague	6'-4"
86	C-PP-25	112 N Phiadelphia St- Cunningham	4'-0"
87	C-PP-25	219 Pine- Vasquez	4'-6"
88	C-PP-25	268 Pine (Sharpless)	8'-0"
89	C-PP-26	223 Pine St- Cogar	4'-3"
90	C-PP-27	Gas Station Garage- Fortney	4'-2"
91	C-PP-27	Gas Station- Fortney	4'-1"
92	C-PP-29	222 E Muskingum St- Wells	4'-8"
93	C-PP-29	E Muskingum St- Wells	4'-8"
94	C-PP-28	Bardall- Hardware Store	4'-2"
95	C-PP-28	218 E Muskingum St (Fox)	3'-8"
96	C-PP-28	229 E Main- Koch	5'-2"
97	C-PP-29	228 E Muskingum St- Scott	4'-8"
98	C-PP-29	230 E Muskingum St- Hibbs	4'-3"
99	C-PP-29	232 E Muskingum St- Koch	4'-6"
100	C-PP-30	241 E Main St (Family Dollar)	6'-5"
101	C-PP-31	302/304 Milligan	8'-0"
102	C-PP-31	306 Piedmont Cook	8'-4"
103	C-PP-31	307 Piedmont- Gump	9'-3"
104	C-PP-32	247 E Main- Gump	5'-1"
105	C-PP-32	250 Cemetery Rd- Lapp	8'-9"
106	C-PP-32	254 Cemetery Rd-Dean	4'-1"
107	C-PP-32	254 Cemetery Rd- Bear	4'-0"
108	C-PP-33	242 E Main- Enterprise	5-10"
109	C-PP-33	244 E Main- Argigani	6'-1"
110	C-PP-34	120 E Main- J & M Holdings	10'-9"
111	C-PP-34	Freeport- Fire Department	6'-7"
112	C-PP-34	118 E Main- Eller	8'-8"
113	C-PP-34	117 E Main- Hyde	6'-9"
114	C-PP-34	116 E Main- J & W Wilson	6'-7"
115	C-PP-34	114 E Main-Milleson (Barber)	6'-2"
116	C-PP-34	113 E Main St (Bear)	6'-2"
117	C-PP-34	112 E Main- Fox	6'-0"
118	C-PP-34	109 E Main- NeNana LLC	6'-3"
119	C-PP-34	107 E Main- Bell	8'-10"
120	C-PP-34	102 E Main (WesBanco)	6'-2"
121	C-PP-35	105 Pine- Ferguson	4'-4"
122	C-PP-35	101 Pine- Mace	4'-7"
123	C-PP-35	108 E Muskingum (Lewis)	4'-9"
124	C-PP-35	106 E Muskingum (Mace)	4'-7"
125	C-PP-35	109 E MainBaker	5'-2"
126	C-PP-35	106 N Philadelphia St	8'-8"
127	C-PP-35	101 E Main St (School)	7'-6"
128	C-PP-36	106 Pine- Tobin	7'-5"
129	C-PP-36	215 E Muskingum (Huston)	6'-4"
130	C-PP-36	217 E Muskingum (Toland)	5'-2"
131	C-PP-36	219 E Muskingum (Wanosik)	4'-0"
132	C-PP-36	221 E Muskingum (Fouts)	4'-8"
133	C-PP-29	224 E Muskingum St- Bouch	4'-6"
134	C-PP-37	225 E Muskingum (Tidrick)	4'-10"
135	C-PP-37	227 E Muskingum (Conter)	5'-0"
136	C-PP-37	233 E Mukingum (Batton)	4'-11"
137	C-PP-37	236 E Muskingum (Durant)	3'-5"
138	C-PP-38	239 E Muskingum (Gardner)	6'-9"
139	C-PP-39	229 E Muskingum (Tidrick)	5'-11"
140	C-PP-39	231 E Muskingum (Hibbs)	5'-6"
141	C-PP-39	116 Community Park (Heddleston)	5'-2"
142	C-PP-39	119 Melody Ln (Batton)	5'-5"
143	C-PP-40	109 E Muskingum (Hammond)	6'-0"
144	C-PP-40	107 E Muskingum (Walker)	4'-8"
145	C-PP-40	104 E Muskingum (Frontz)	7'-8"
146	C-PP-40	105 E Muskingum (Allen)	4'-7"
147	C-PP-41	104 Dewey Ave- (Gainer)	5'-10"
148	C-PP-41	110 Dewey Ave- (Kennedy)	6'-7"
149	C-PP-42	20800 Dewey Ave (Huston)	9'-8"
150	C-PP-25	210 Pine St- McClend (Lot 212)	5'-2"
151	C-PP-43	112 Dewey Ave (McClend)	6'-8"
GS-3	C-PP-48	335 S Philadelphia St-Gosnell	4'-1"
GS-5	C-PP-48	323 S Philadelphia St- Swiney	DNP
GS-6	C-PP-49	109 High St- Hamilton	4'-3"
GS-7	C-PP-50	215 W Muskingum St-Donbar	4'-2"
GS-8	C-PP-50	217 W Muskingum St- Monroe	4'-0"
GS-9	C-PP-51	87 High St- Orr	9'-6"
GS-10	C-PP-52	Village Garage	7'-5"
GS-11	C-PP-53	115 S Philadelphia St	4'-2"
GS-12	C-PP-54	238 E Main St- Metro Housing	7'-6"
GS-13	C-PP-55	310 Piedmont Rd- Bardall	4'-5"
GS-14	C-PP-55	312 Piedmont Rd- Frontz	8'-8"
GS-15	C-PP-55	313 Piedmont Rd- Ingram	4'-0"
GS-16	C-PP-55	315 Piedmont Rd- Kimball	4'-0"
GS-17	C-PP-55	317 Piedmont Rd- Karl	4'-1"
GS-18	C-PP-55	255 Cemetery Hill Rd	4'-0"

MEASURED DEPTH OF LATERAL PIPING CONNECTION AT CLEANOUT PROVIDED BY BORDER PATROL, LLC 06/19/2025

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Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	JLI
Drawn By:	JLI
Check By:	AJP
Scale:	
Issue Date:	AUGUST 2025

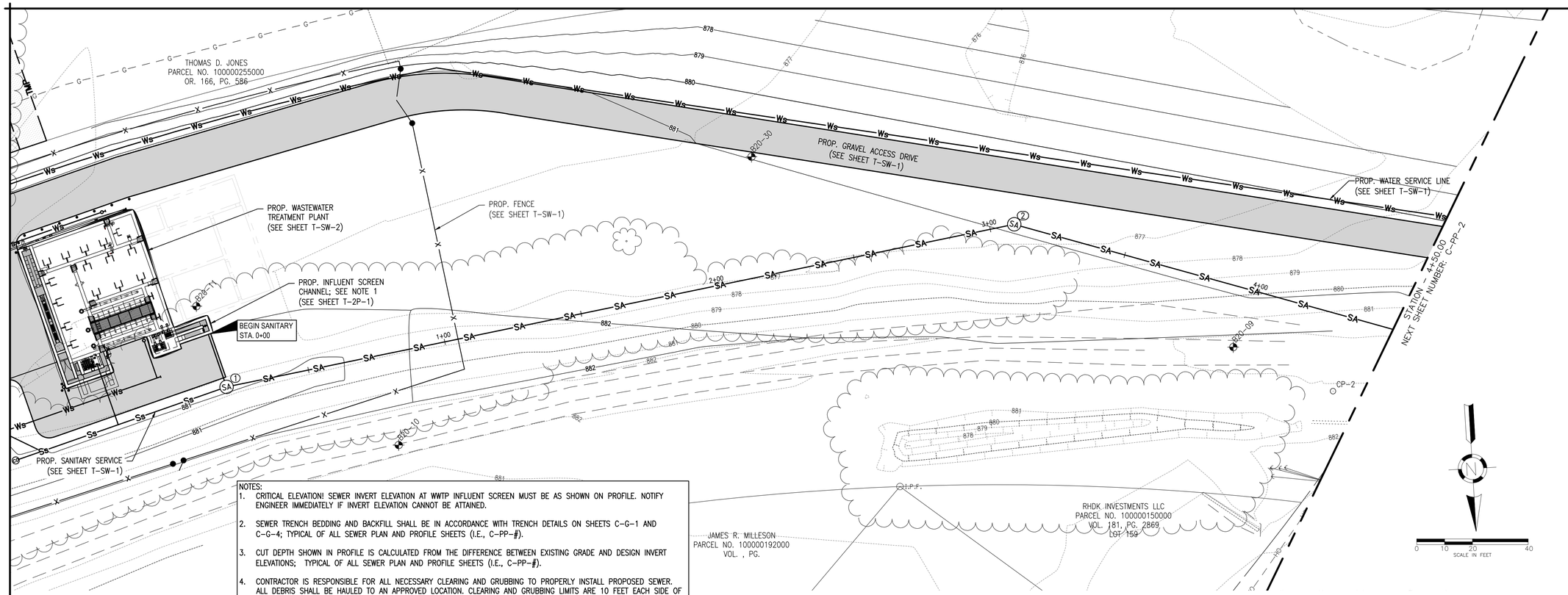
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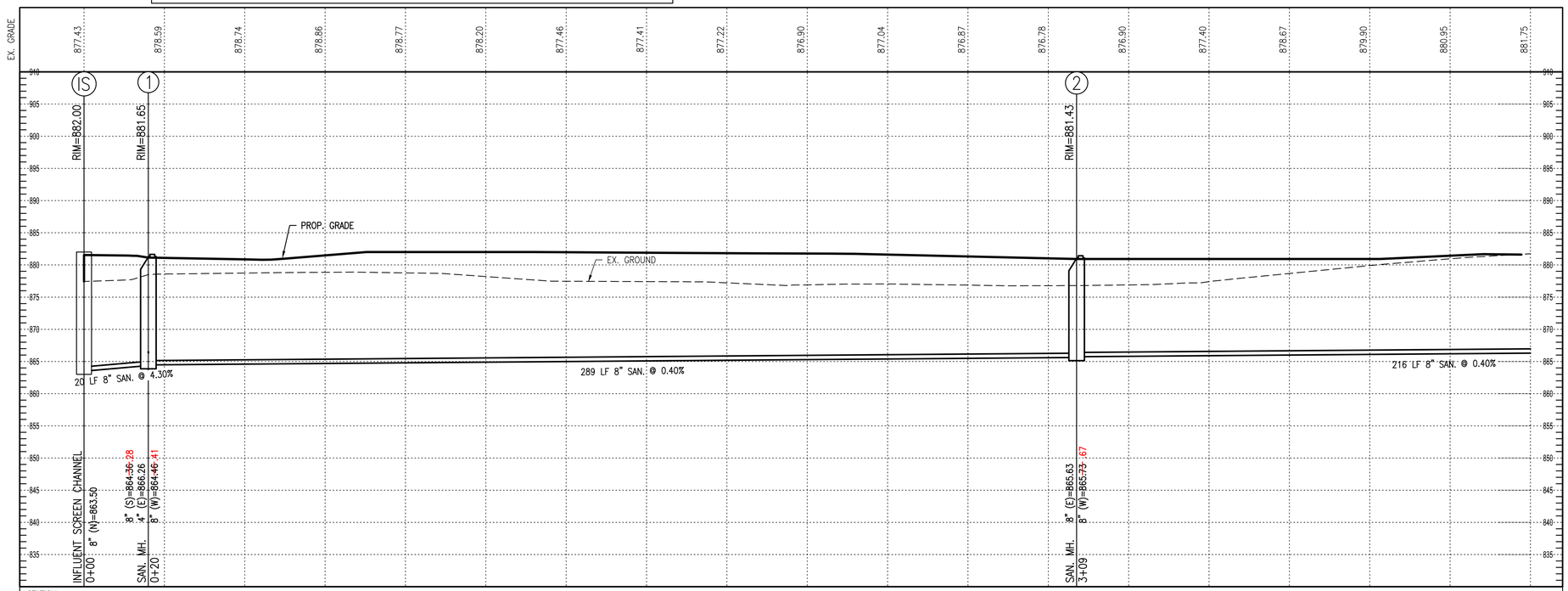
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NOTES:

1. CRITICAL ELEVATION! SEWER INVERT ELEVATION AT WWTP INFLUENT SCREEN MUST BE AS SHOWN ON PROFILE. NOTIFY ENGINEER IMMEDIATELY IF INVERT ELEVATION CANNOT BE ATTAINED.
2. SEWER TRENCH BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH TRENCH DETAILS ON SHEETS C-G-1 AND C-G-4; TYPICAL OF ALL SEWER PLAN AND PROFILE SHEETS (I.E., C-PP-#).
3. CUT DEPTH SHOWN IN PROFILE IS CALCULATED FROM THE DIFFERENCE BETWEEN EXISTING GRADE AND DESIGN INVERT ELEVATIONS; TYPICAL OF ALL SEWER PLAN AND PROFILE SHEETS (I.E., C-PP-#).
4. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CLEARING AND GRUBBING TO PROPERLY INSTALL PROPOSED SEWER. ALL DEBRIS SHALL BE HAULED TO AN APPROVED LOCATION. CLEARING AND GRUBBING LIMITS ARE 10 FEET EACH SIDE OF CENTERLINE OF THE PROPOSED SEWER. REFER TO NOTE 3, SHEET T-SW-1, FOR ADDITIONAL DETAILS ON WWTP SITE CLEARING.



STATION	0+00	1+00	2+00	3+00	4+00	4+50
INVERT	863.50	864.78	865.18	865.58	866.09	866.29
CUT	13.93	13.99	12.04	11.19	13.81	15.46

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Professional Seal:

STATE OF OHIO · CHERYL L GREEN · E-47635 · REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

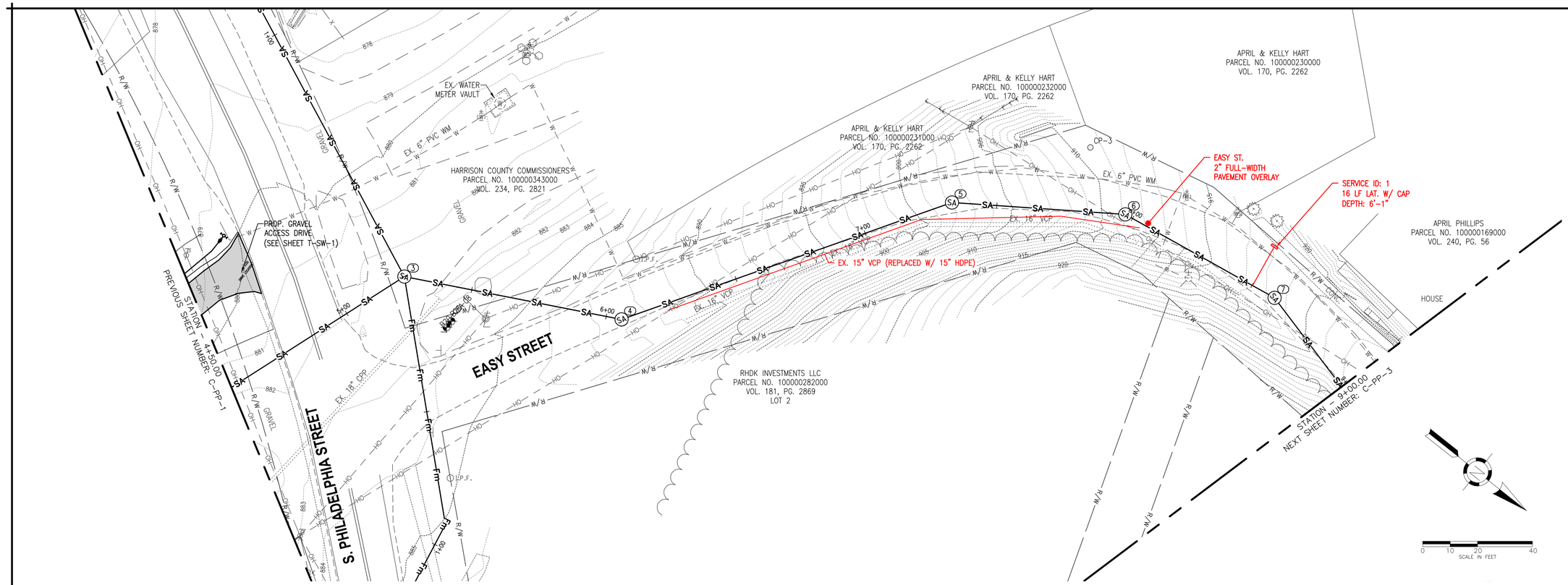
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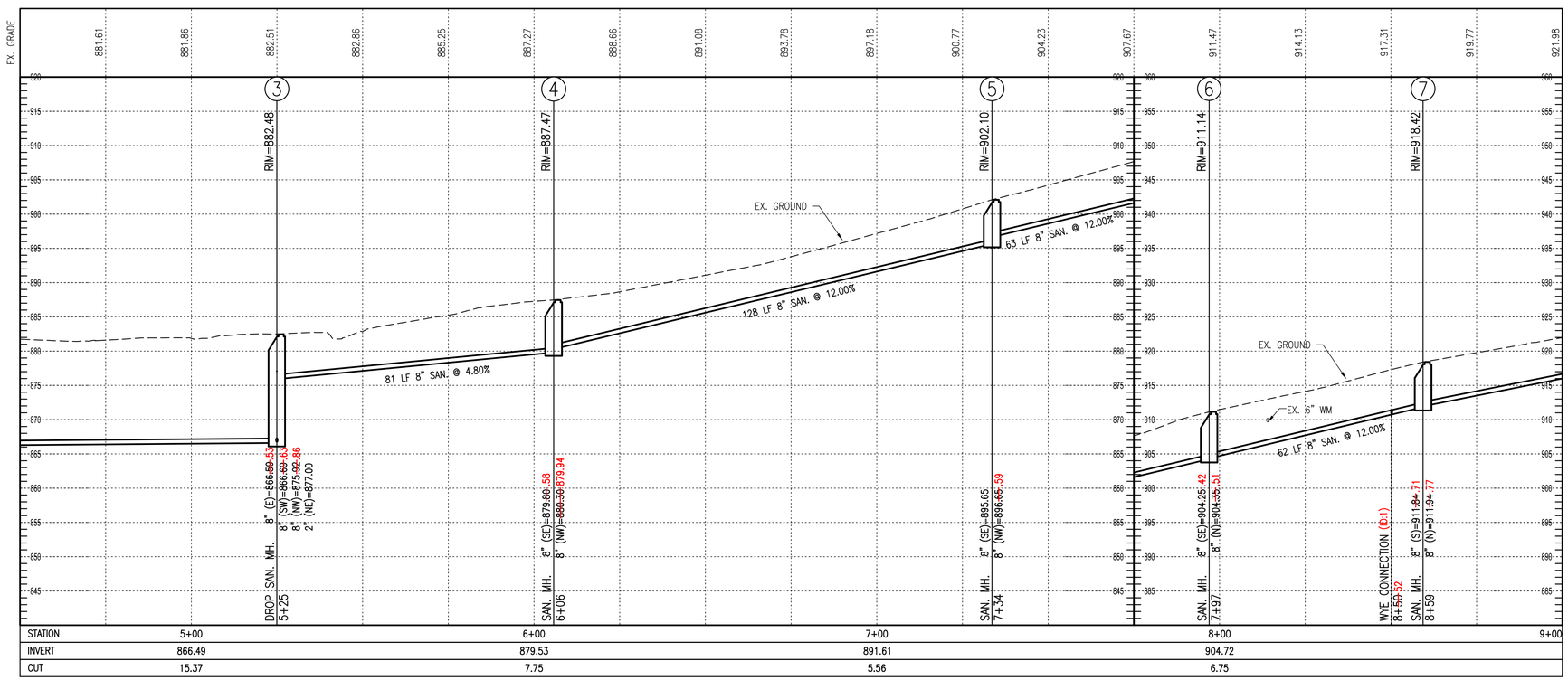
TREATMENT PLANT P&P

Sheet Number:

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STATION	5+00	6+00	7+00	8+00	9+00
INVERT	866.49	879.53	891.61	904.72	
CUT	15.37	7.75	5.56	6.75	

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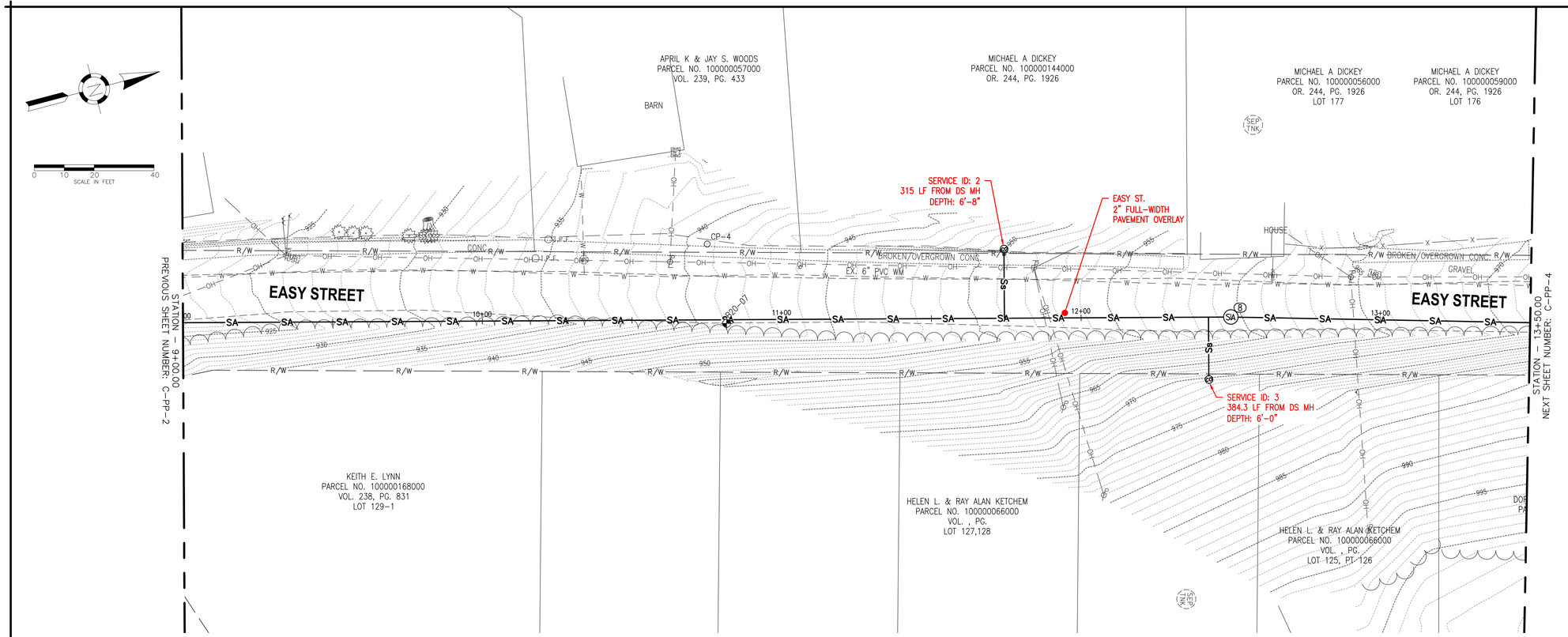
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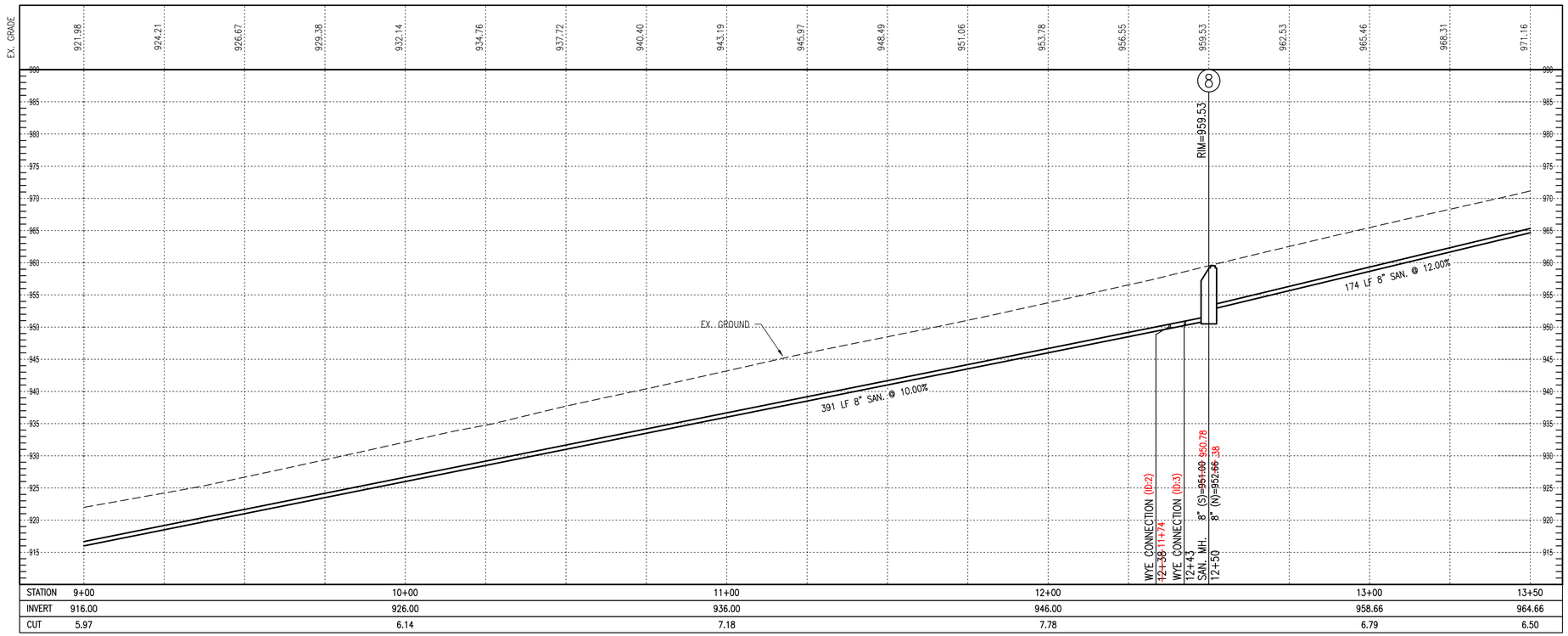
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Sheet Number:

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Check By:	CLG
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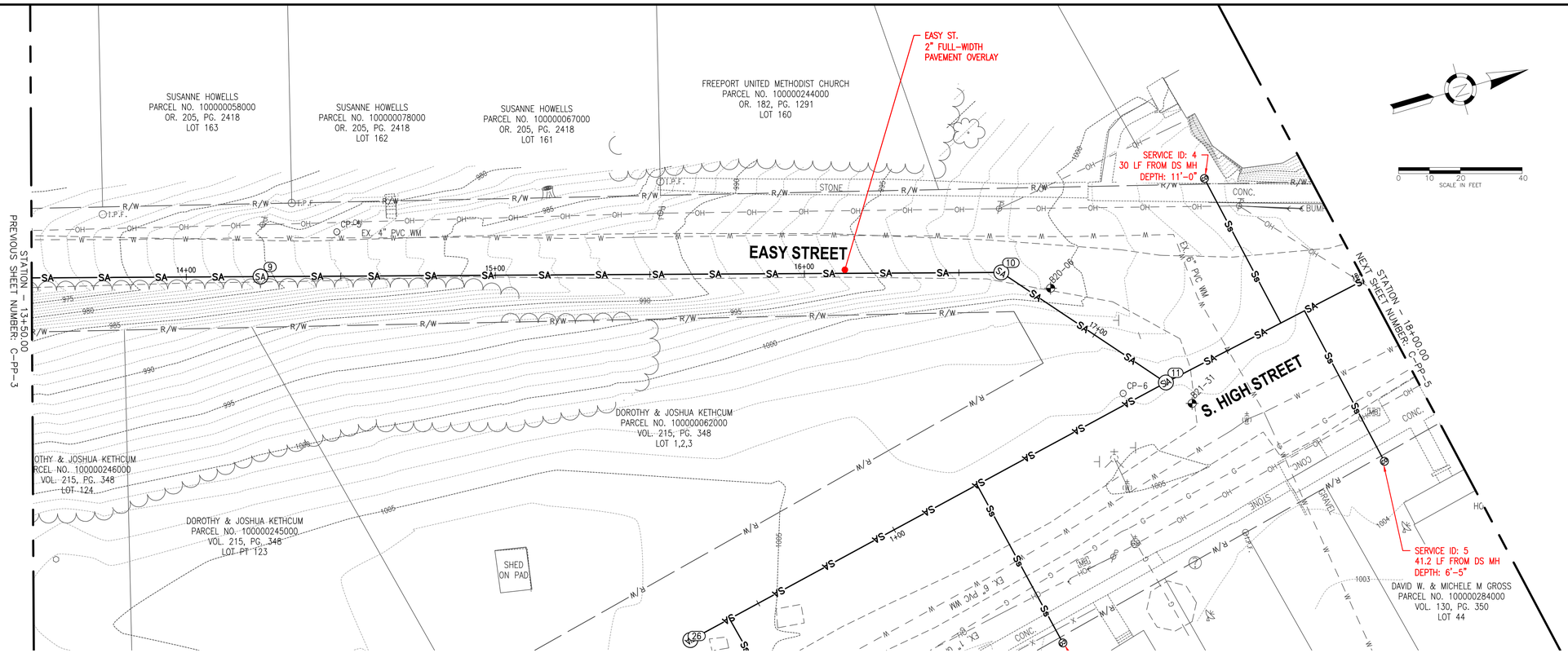
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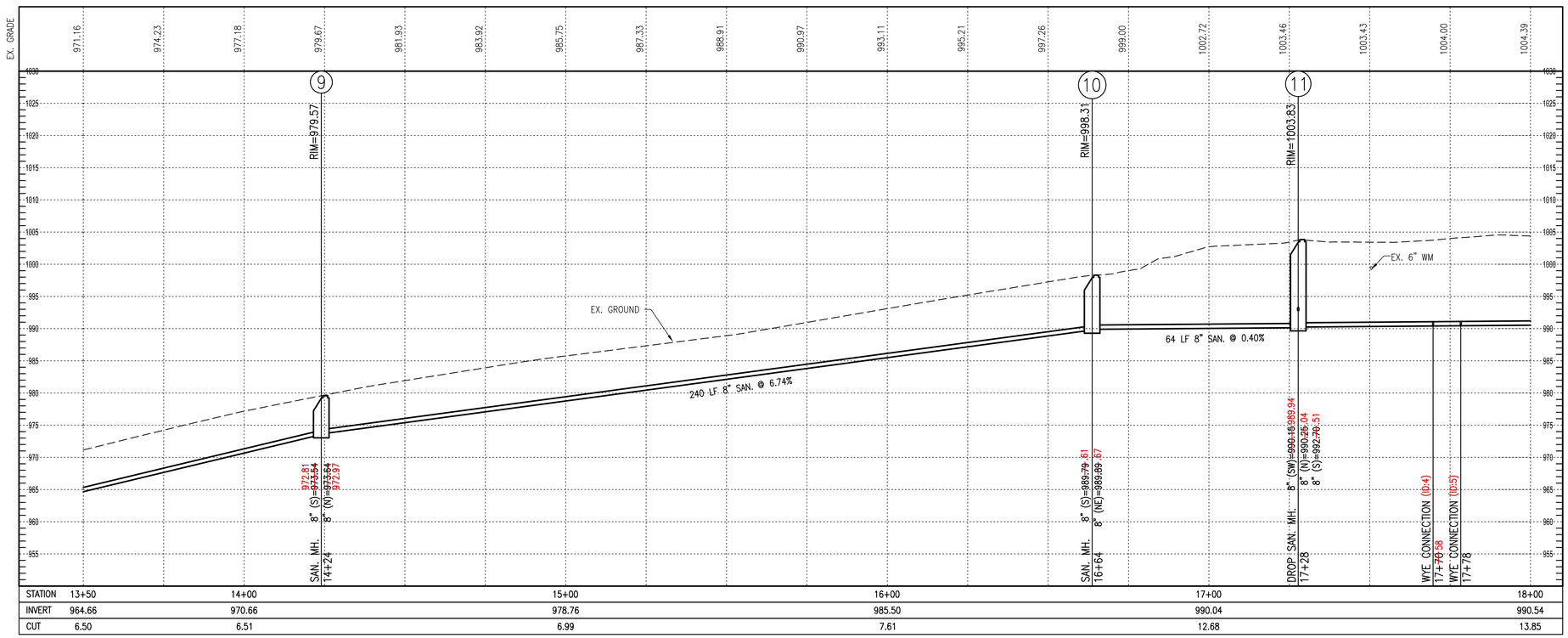
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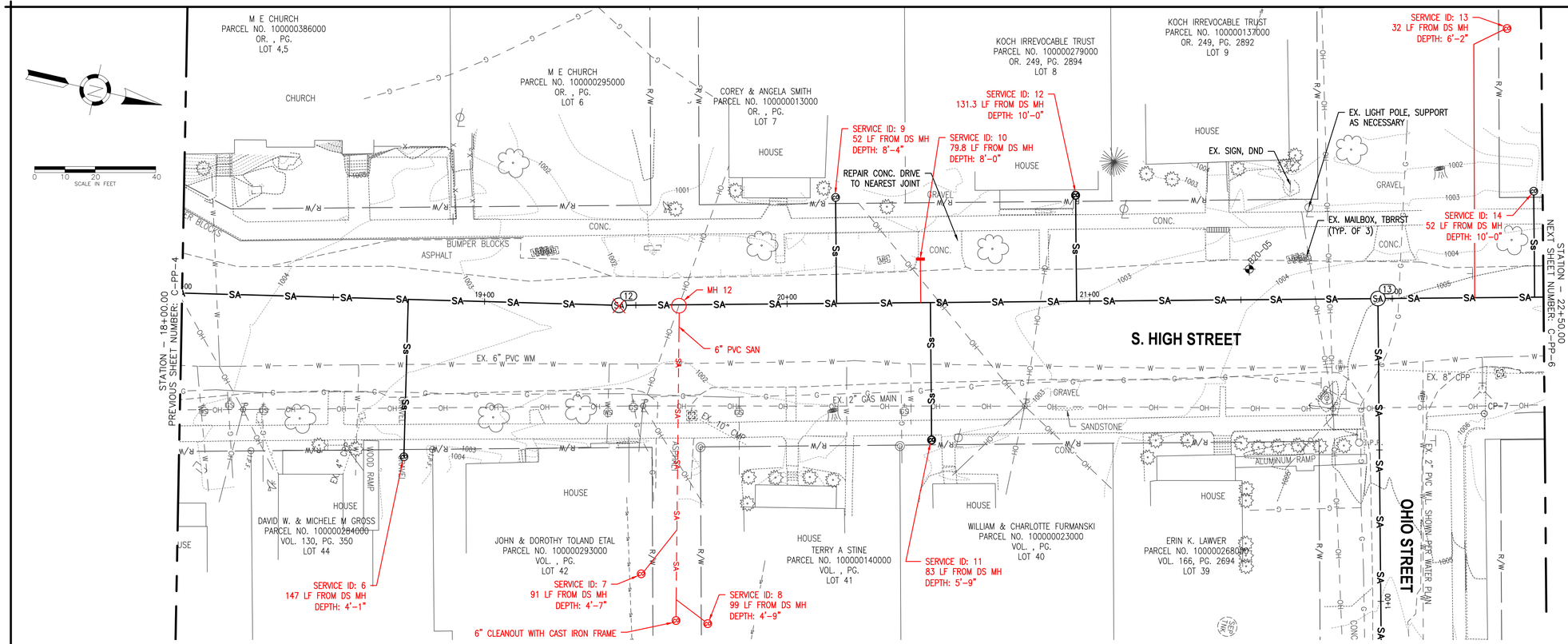
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Issue Date:	AUGUST 2025

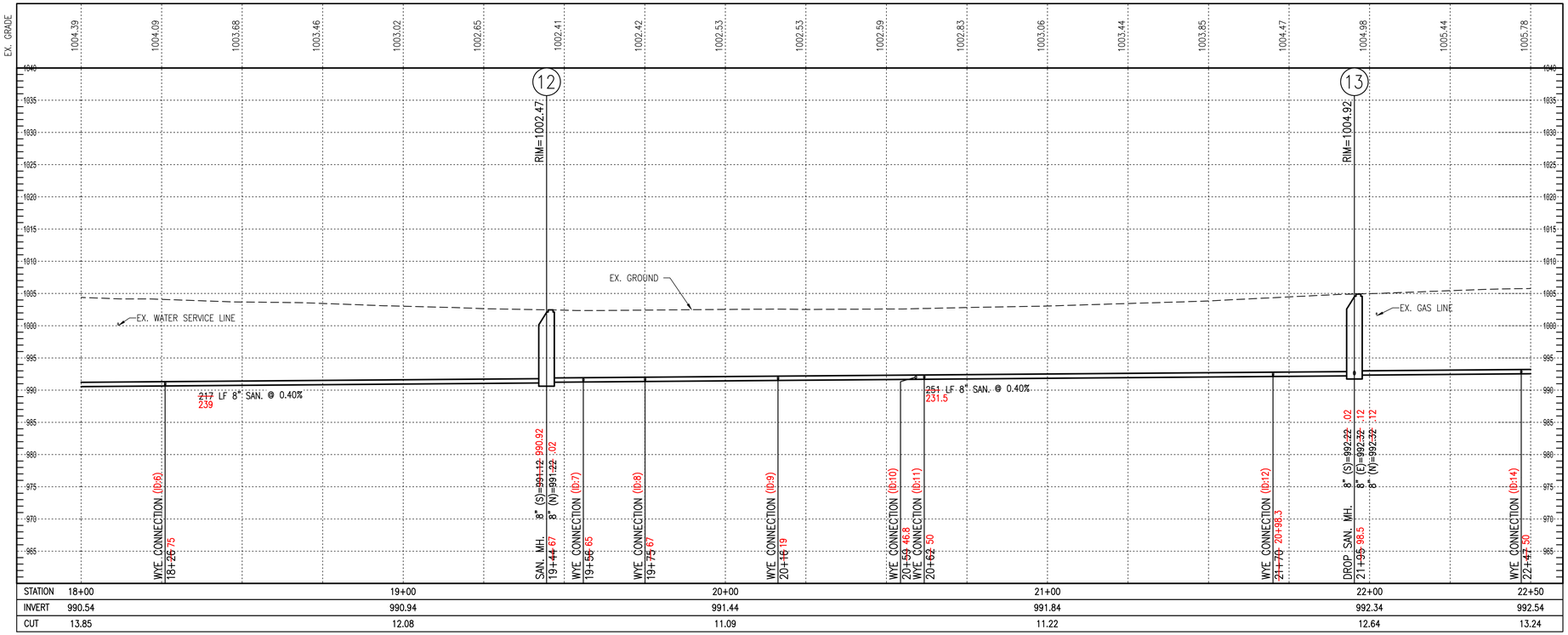
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E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

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HARRISON COUNTY, OHIO

Owner:

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Project No.:	HCY005
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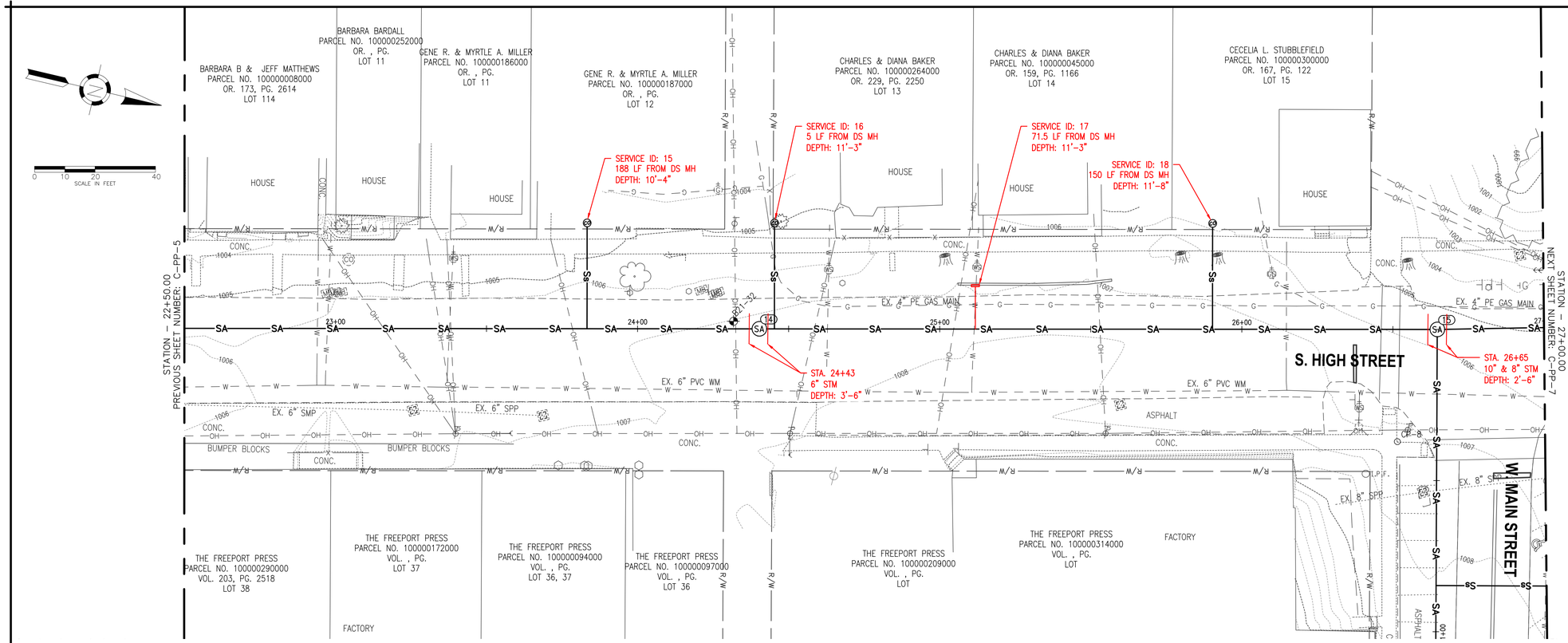
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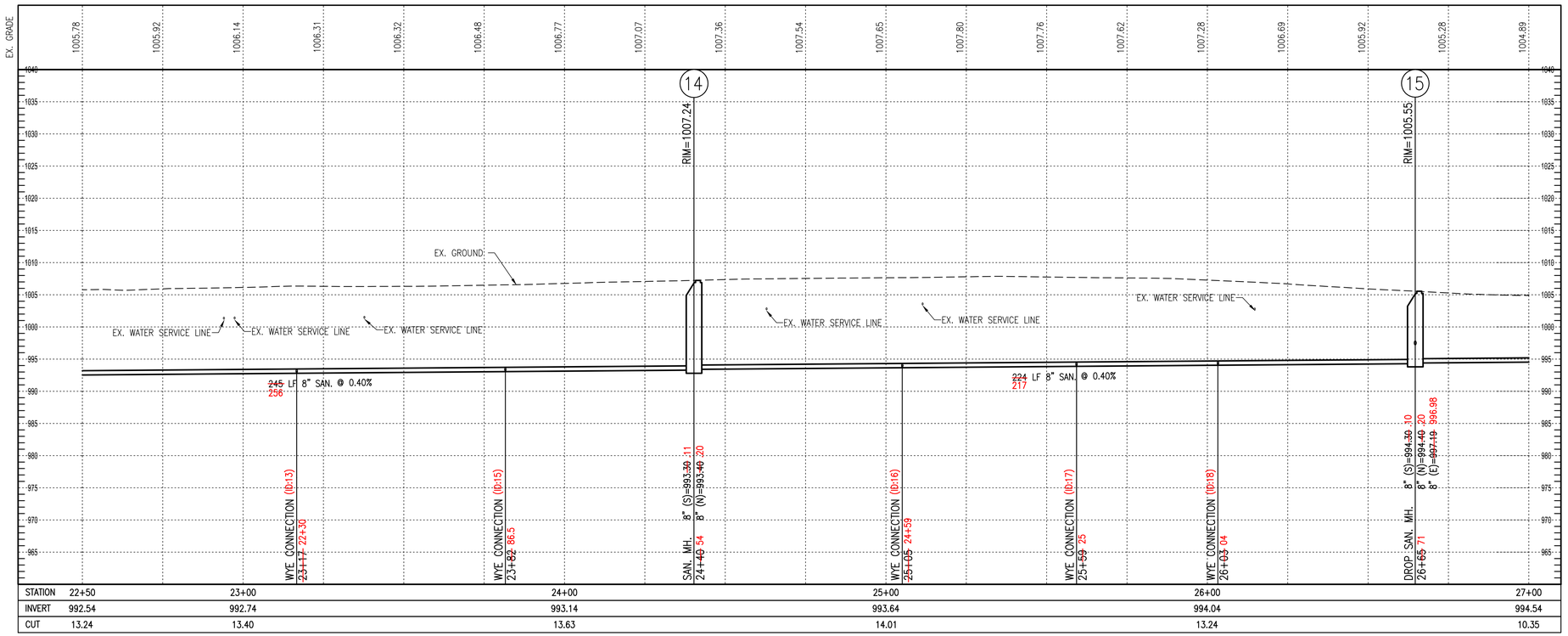
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Sheet Number:

C-PP-5

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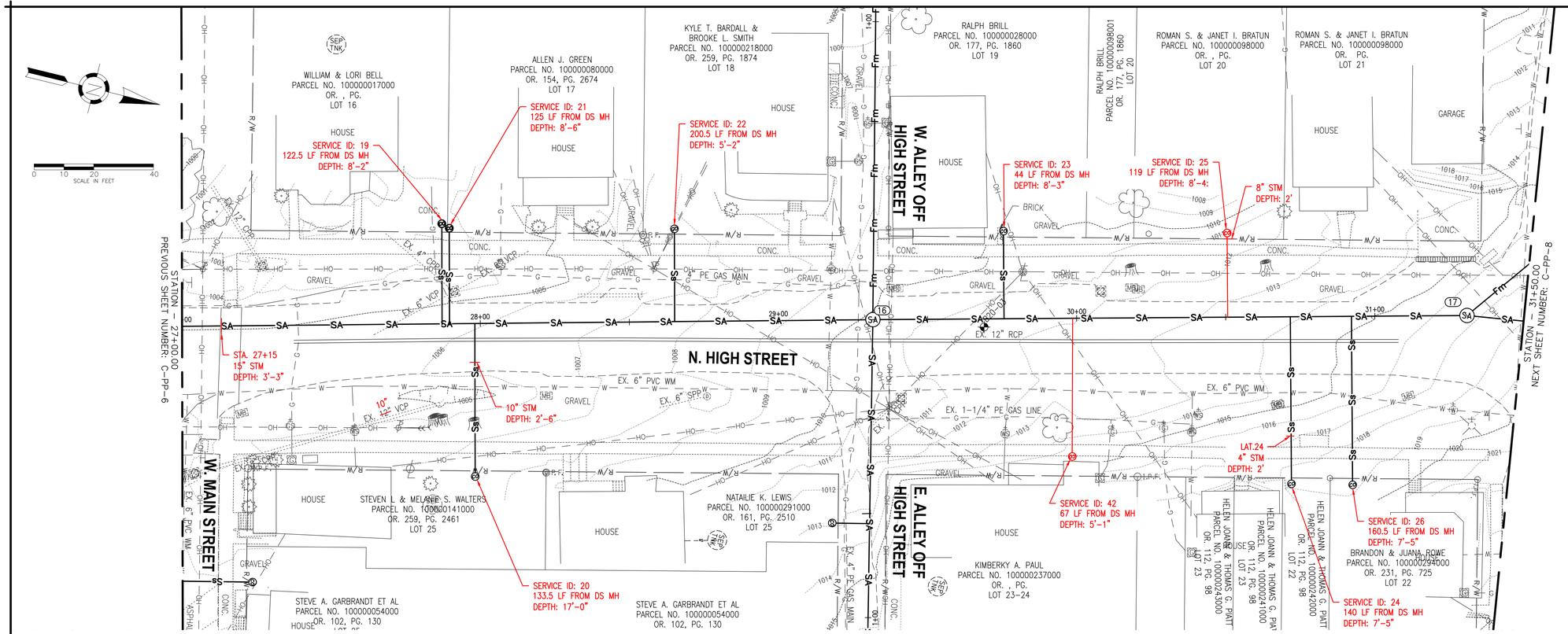
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Sheet Number:

C-PP-6

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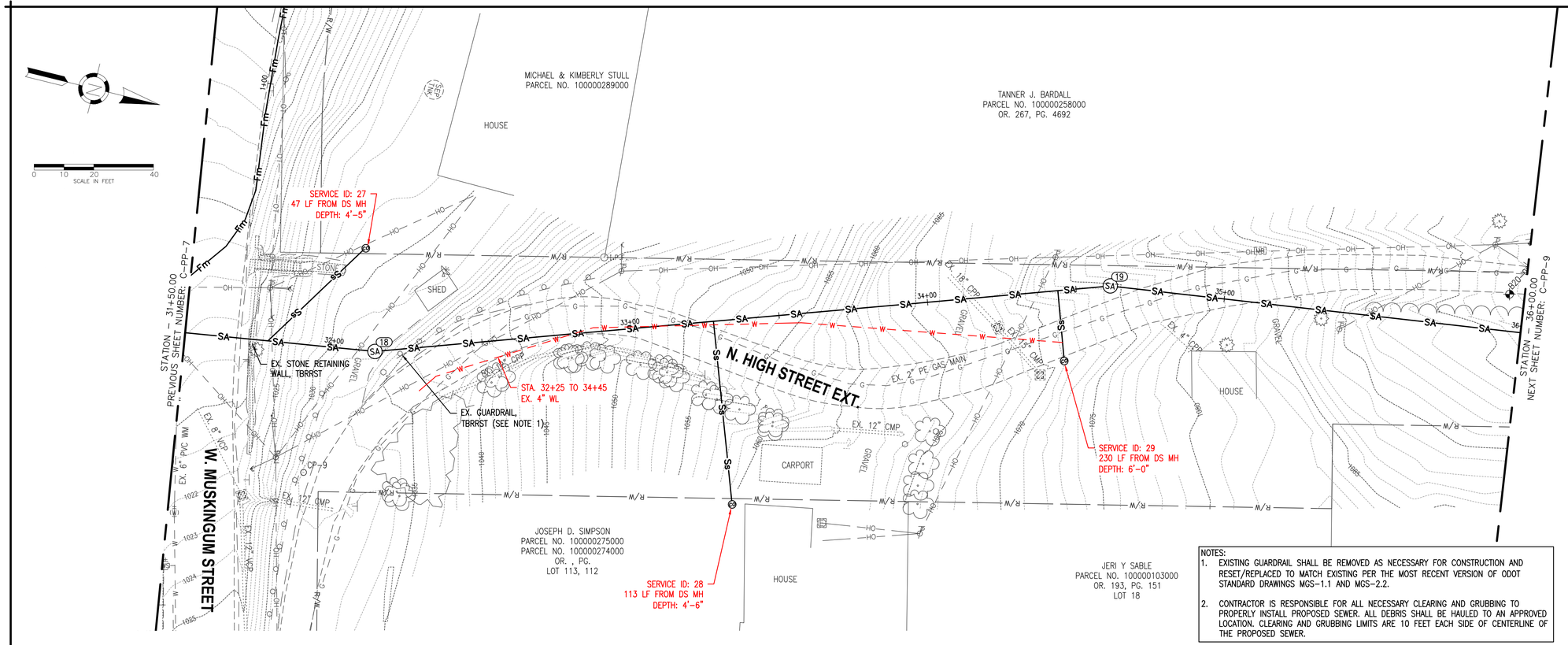
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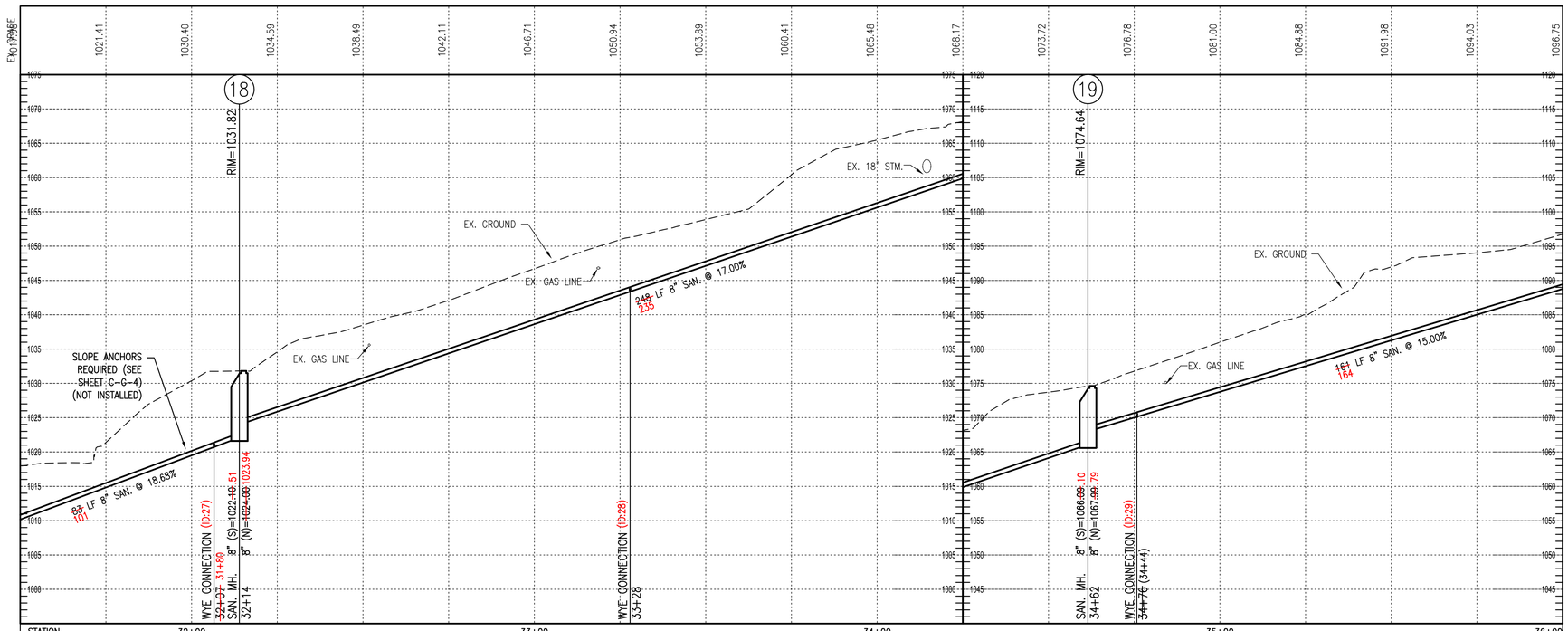
N. HIGH STREET
P&P

Sheet Number:

C-PP-7



NOTES:
1. EXISTING GUARDRAIL SHALL BE REMOVED AS NECESSARY FOR CONSTRUCTION AND RESET/REPLACED TO MATCH EXISTING PER THE MOST RECENT VERSION OF ODOT STANDARD DRAWINGS MGS-1.1 AND MGS-2.2.
2. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CLEARING AND GRUBBING TO PROPERLY INSTALL PROPOSED SEWER. ALL DEBRIS SHALL BE HAULED TO AN APPROVED LOCATION. CLEARING AND GRUBBING LIMITS ARE 10 FEET EACH SIDE OF CENTERLINE OF THE PROPOSED SEWER.



STATION	32+00	33+00	34+00	35+00	36+00
INVERT	1019.50	1038.63	1055.63	1073.76	
CUT	10.90	8.08	9.85	7.24	

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REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

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HARRISON COUNTY, OHIO

Owner:

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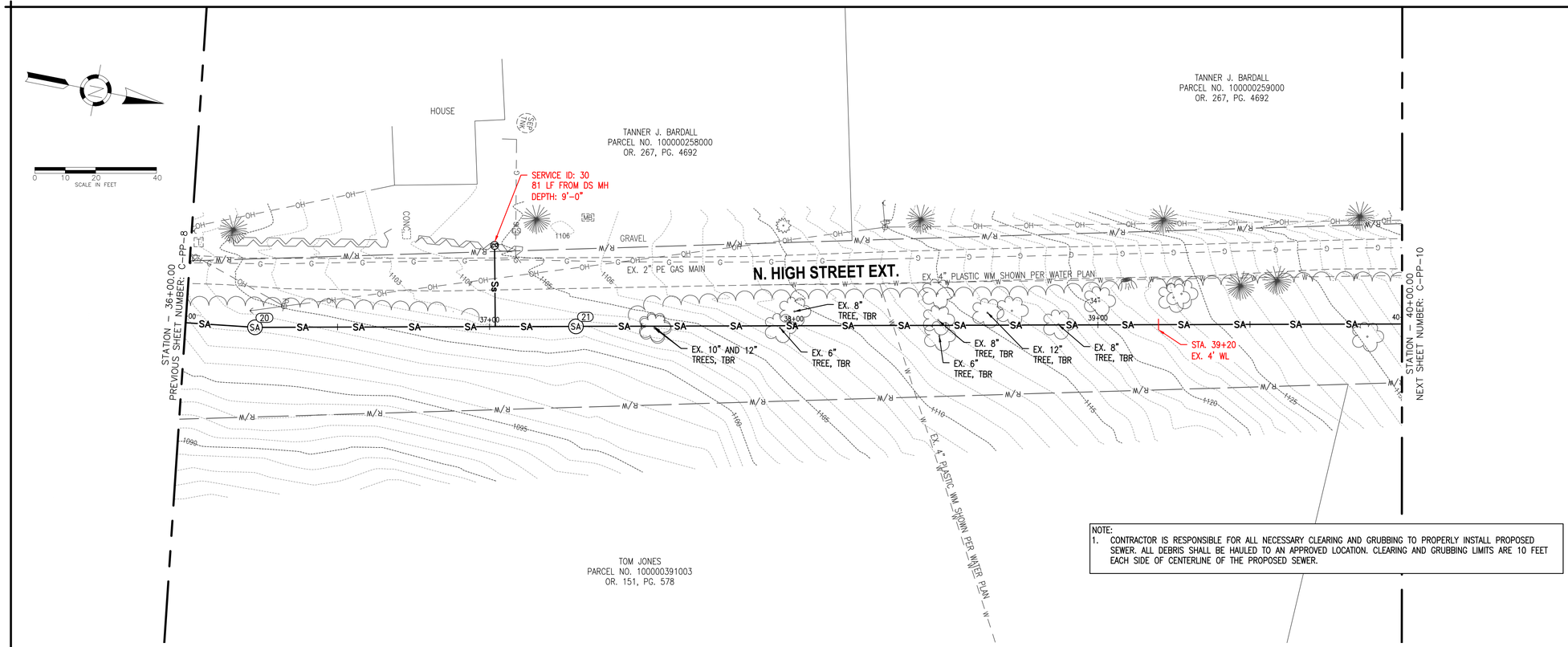
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N. HIGH STREET
P&P

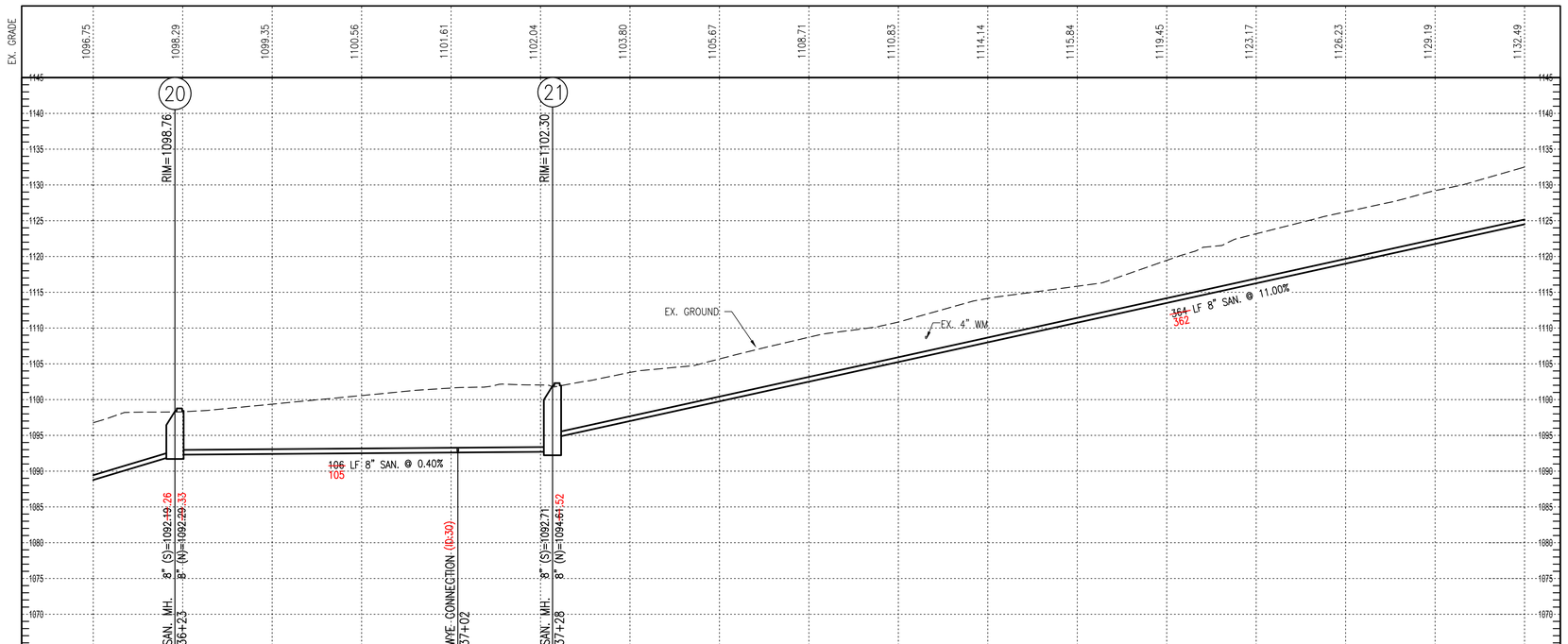
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C-PP-8

F:\Clients\Active\HCY\HCY005\Design\Drawing Sheets\HCY005_SAN001.dwg, 8, JwdJc, Aug 06, 2025 - 4:45pm



NOTE:
1. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CLEARING AND GRUBBING TO PROPERLY INSTALL PROPOSED SEWER. ALL DEBRIS SHALL BE HAULED TO AN APPROVED LOCATION. CLEARING AND GRUBBING LIMITS ARE 10 FEET EACH SIDE OF CENTERLINE OF THE PROPOSED SEWER.



STATION	36+00	37+00	38+00	39+00	40+00
INVERT	1088.76	1092.60	1102.49	1113.49	1124.49
CUT	7.99	9.01	6.21	5.96	8.00

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

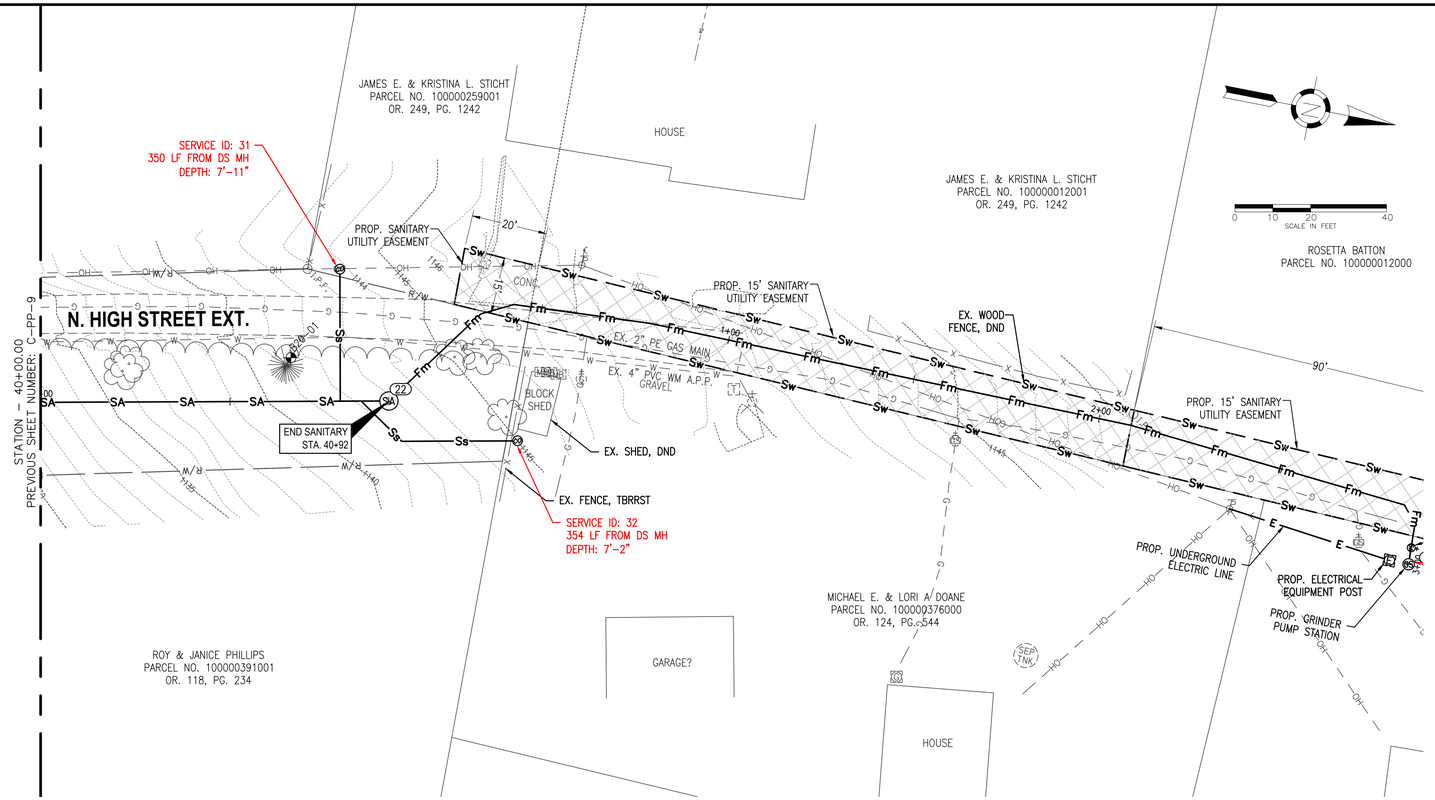
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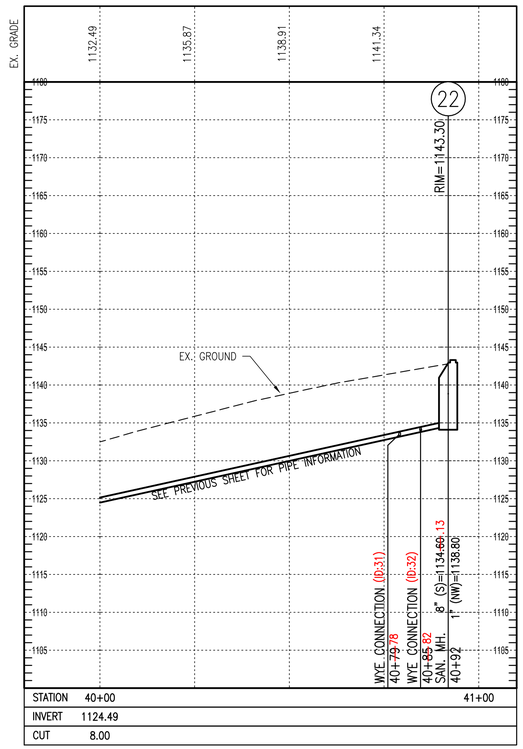
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P&P

Sheet Number:

C-PP-9

F:\Clients\Active\HCY\HCY005\Design\Drawing\Sheets\HCY005_SAN001.dwg, 9, JwdPc, Aug 06, 2025 - 4:46pm





NOTE:
1. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CLEARING AND GRUBBING TO PROPERLY INSTALL PROPOSED SEWER. ALL DEBRIS SHALL BE HAULED TO AN APPROVED LOCATION. CLEARING AND GRUBBING LIMITS ARE 10 FEET EACH SIDE OF CENTERLINE OF THE PROPOSED SEWER.

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

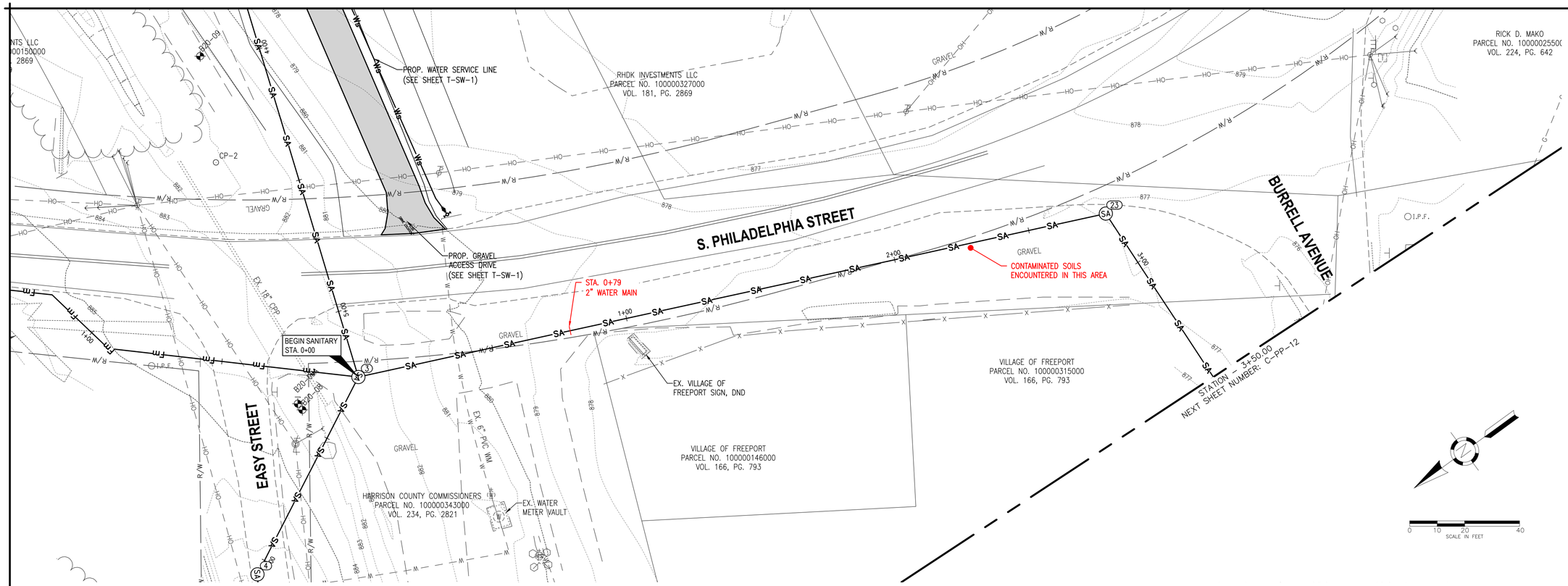
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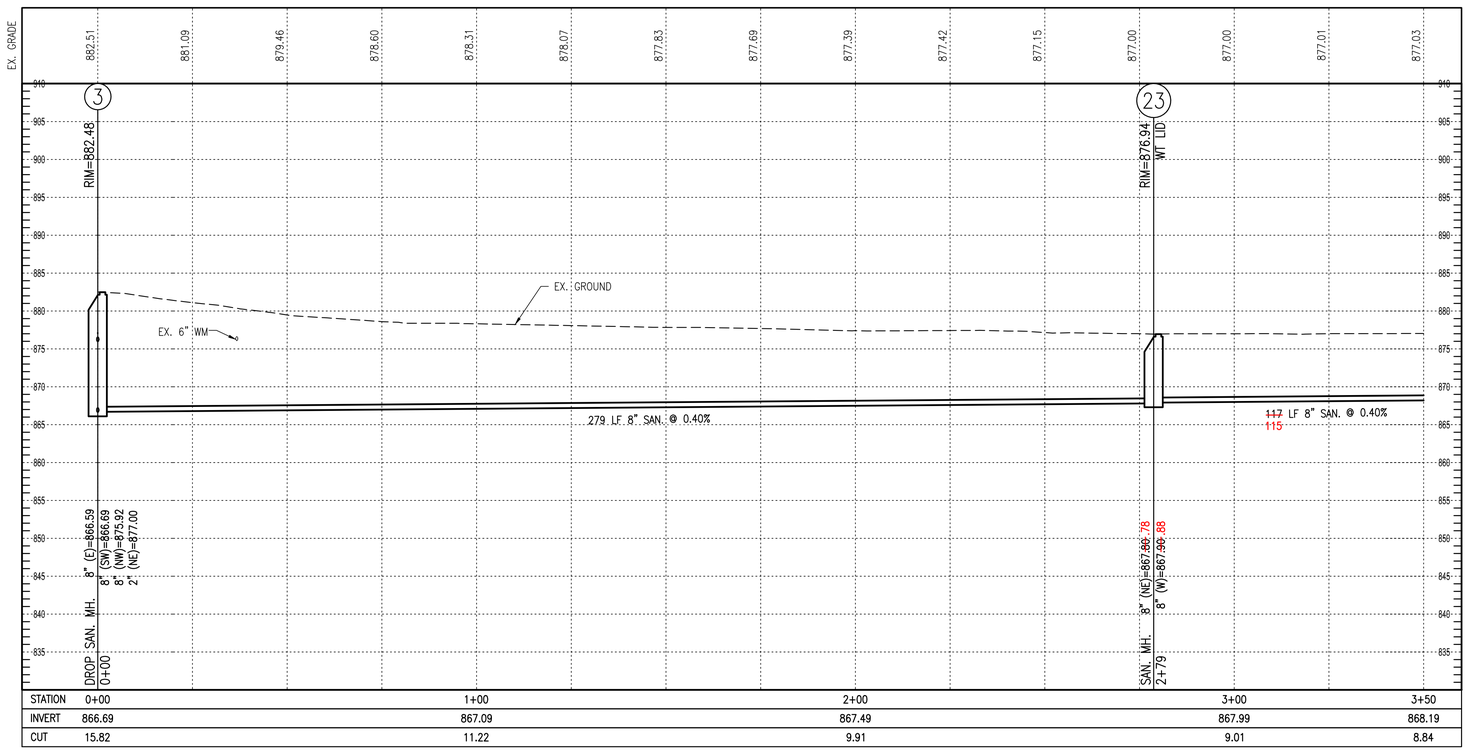
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Sheet Number:

C-PP-10

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INVERT	866.69	867.09	867.49	867.99	868.19
CUT	15.82	11.22	9.91	9.01	8.84

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Project Title:

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HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

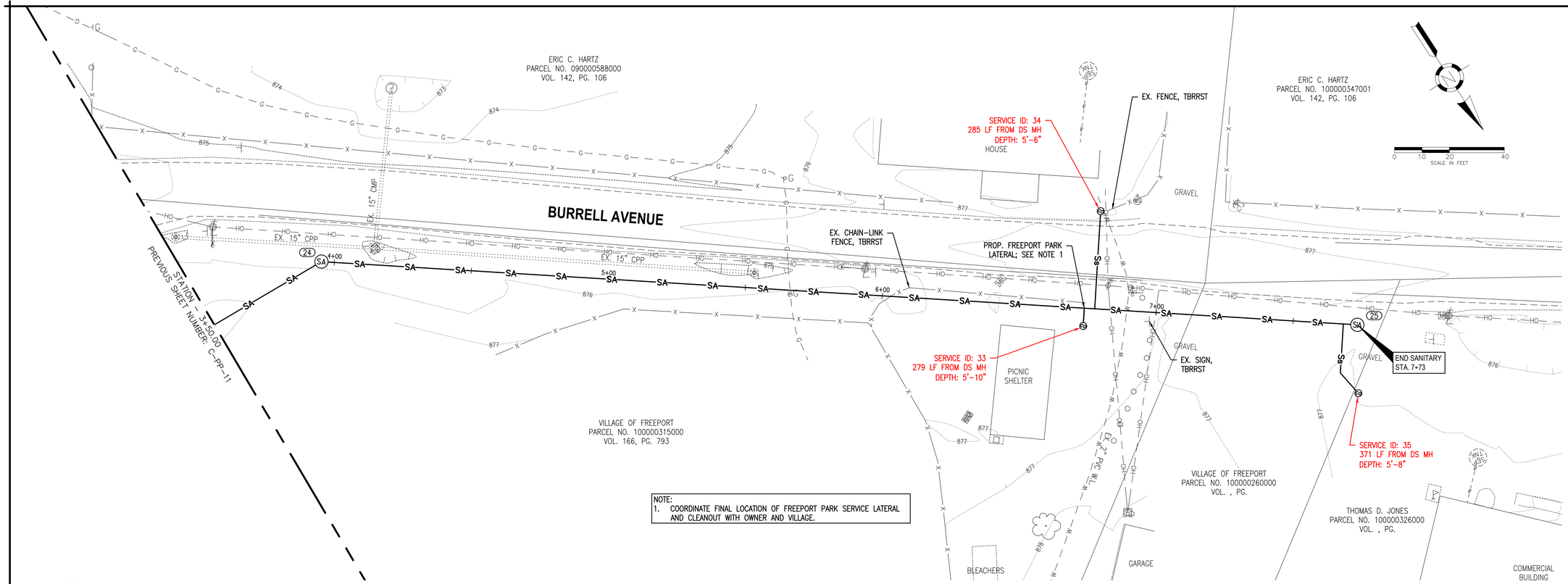
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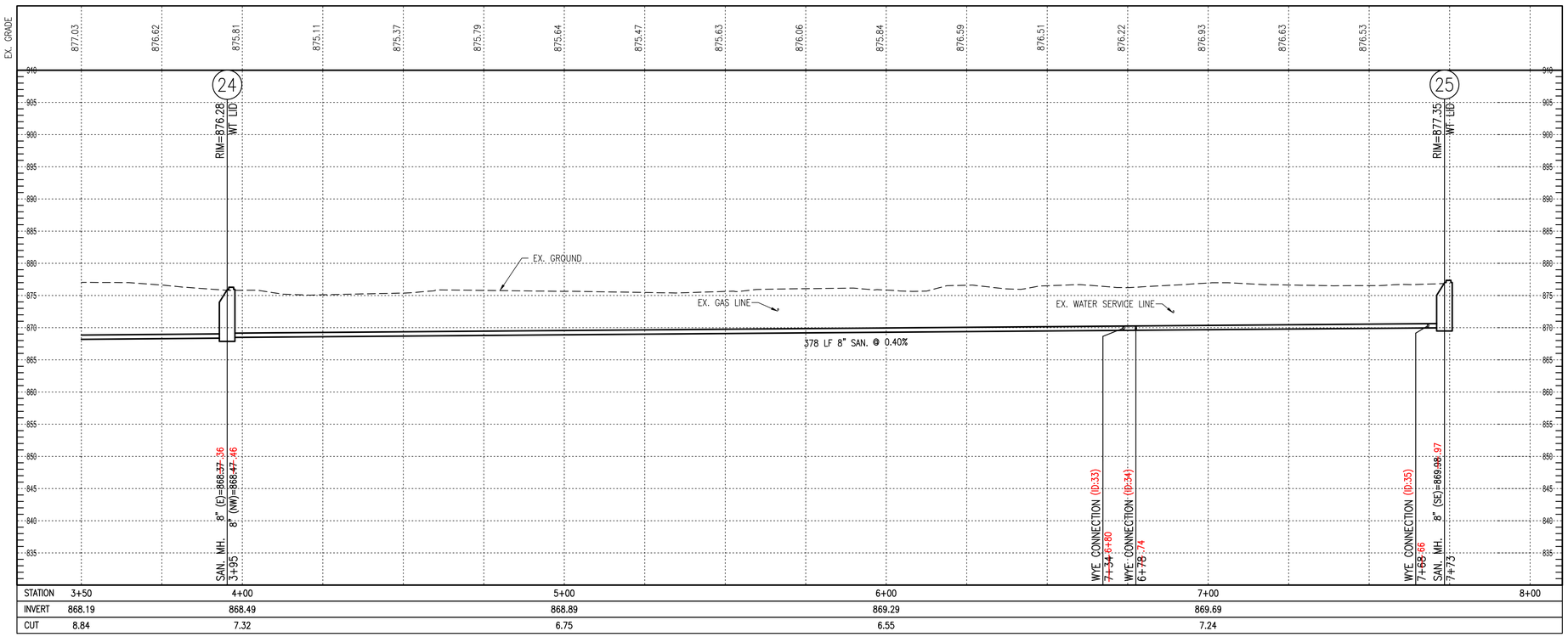
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Sheet Number:

C-PP-11

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INVERT	868.19	868.49	868.89	869.29	869.69	
CUT	8.84	7.32	6.75	6.55	7.24	

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HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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Mark	Description	Date
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	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

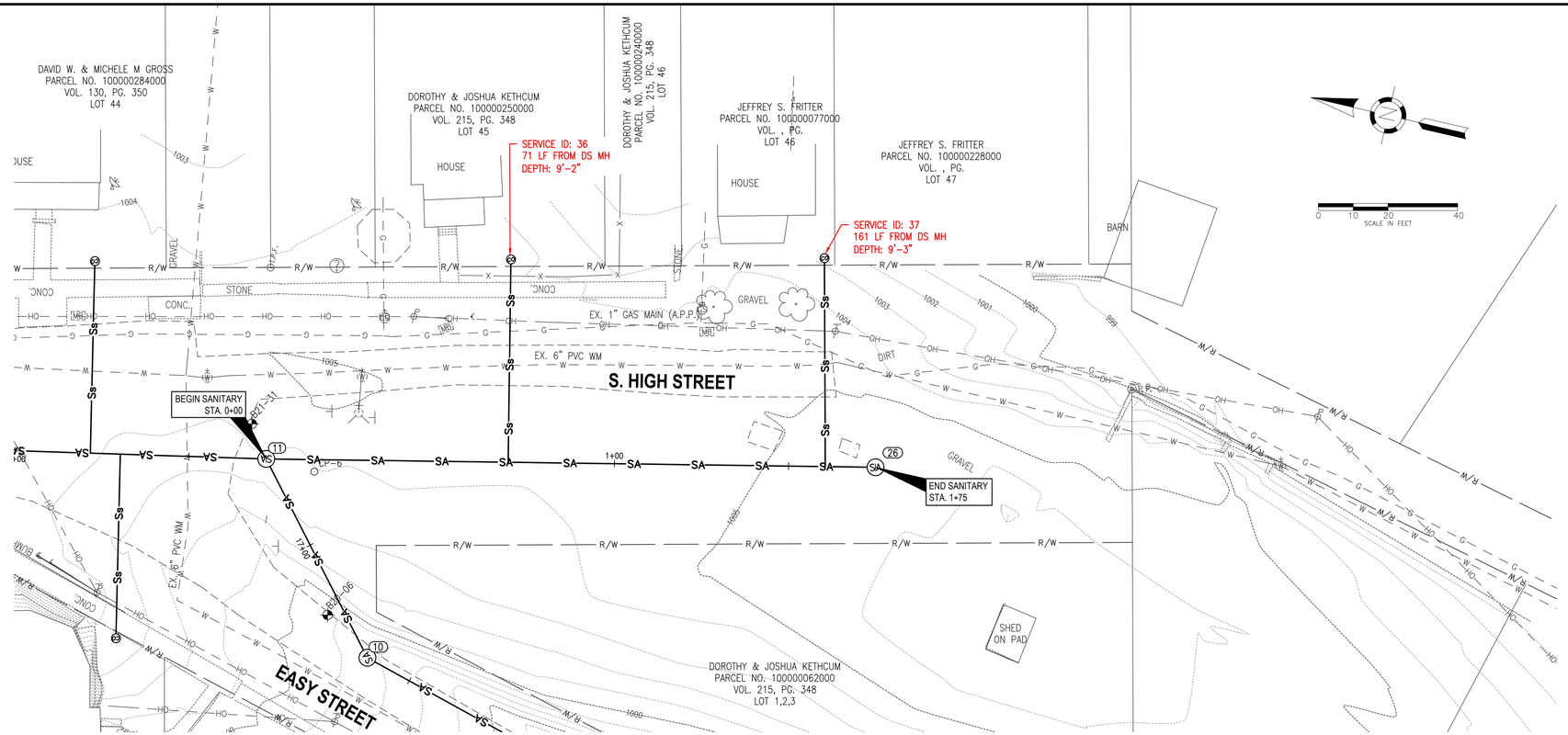
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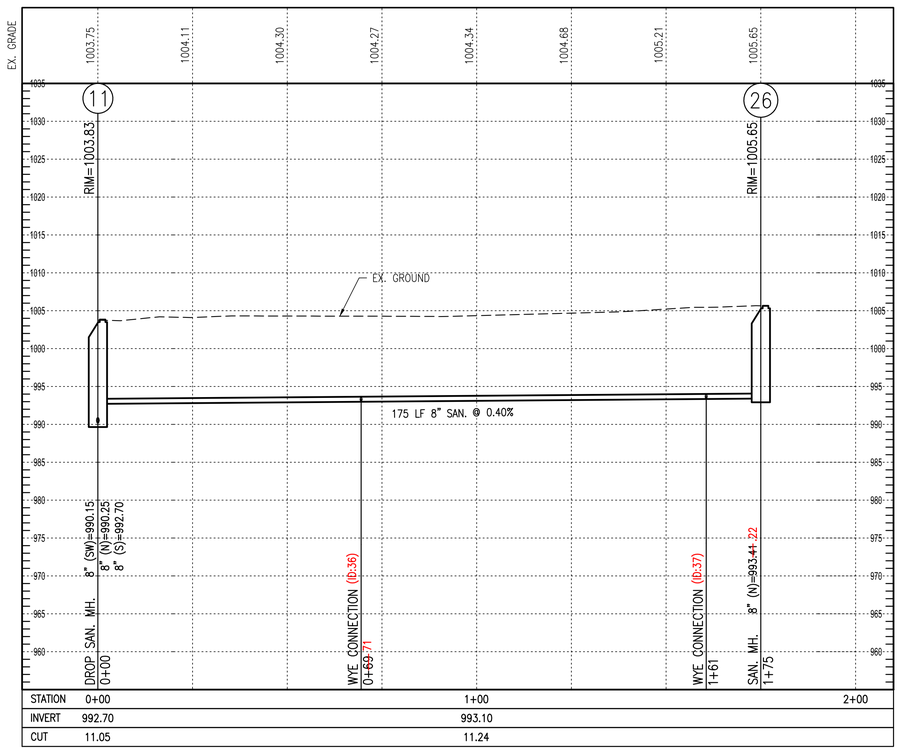
BURRELL AVENUE
P&P

Sheet Number:

C-PP-12

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Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
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HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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	REC	08/06/25

Project No.:	HCY005
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Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

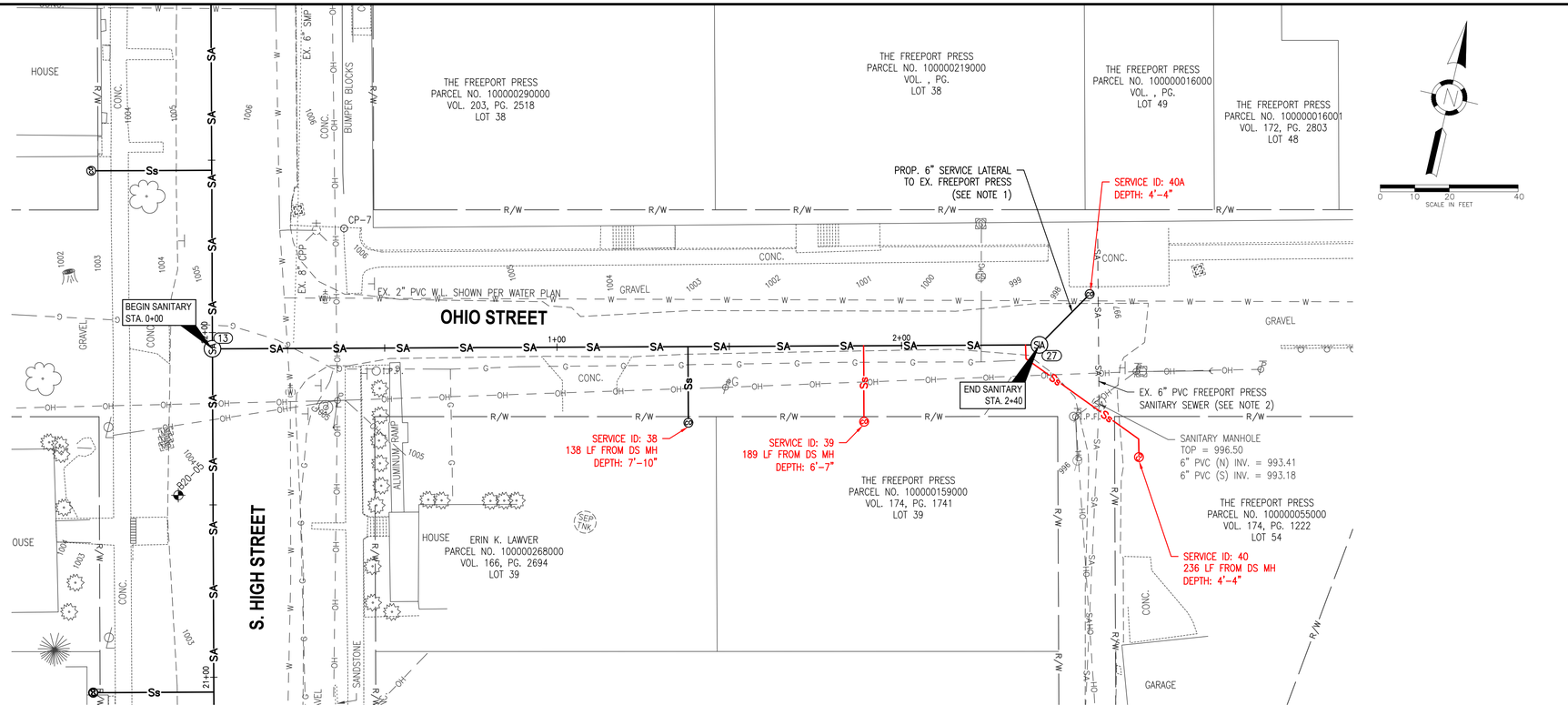
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S. HIGH STREET
P&P

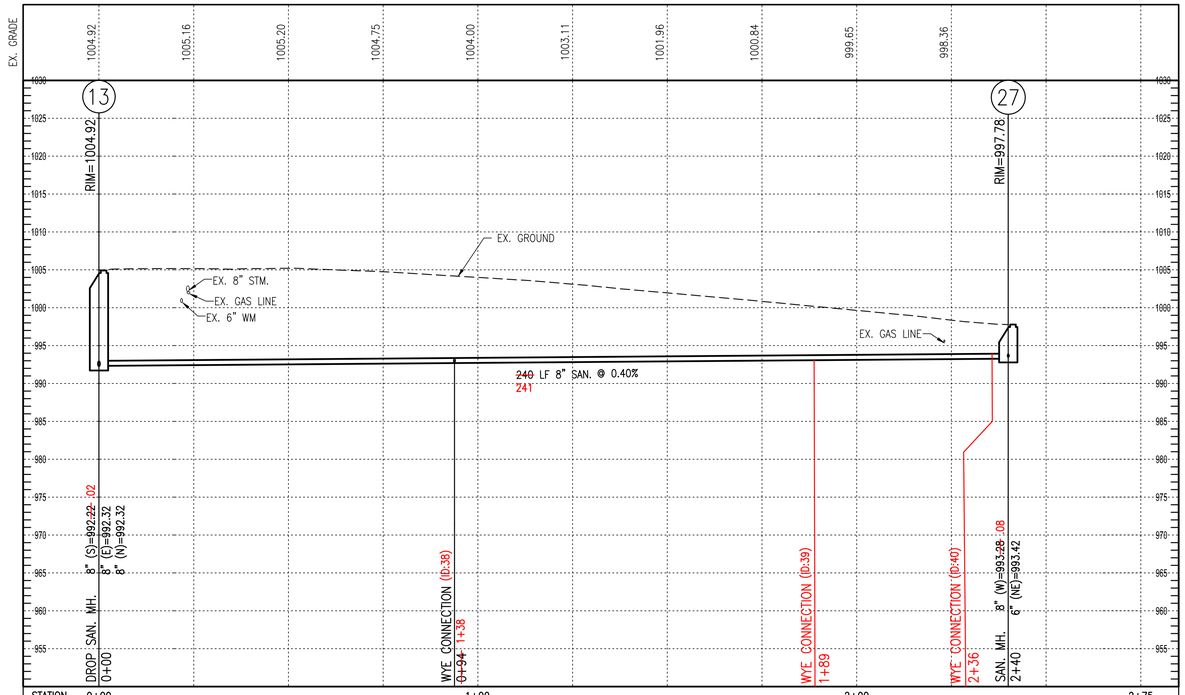
Sheet Number:

C-PP-13

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NOTES:
1. CONTRACTOR SHALL COORDINATE WORK WITH FREEPORT PRESS FACILITY TO AVOID INTERRUPTION OF SEWER SERVICE.
2. EXISTING 6" PVC GRAVITY SEWER AND THE EXISTING TREATMENT SYSTEM (OWNED AND OPERATED BY FREEPORT PRESS) TO BE TAKEN OUT OF SERVICE (BY OTHERS).



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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

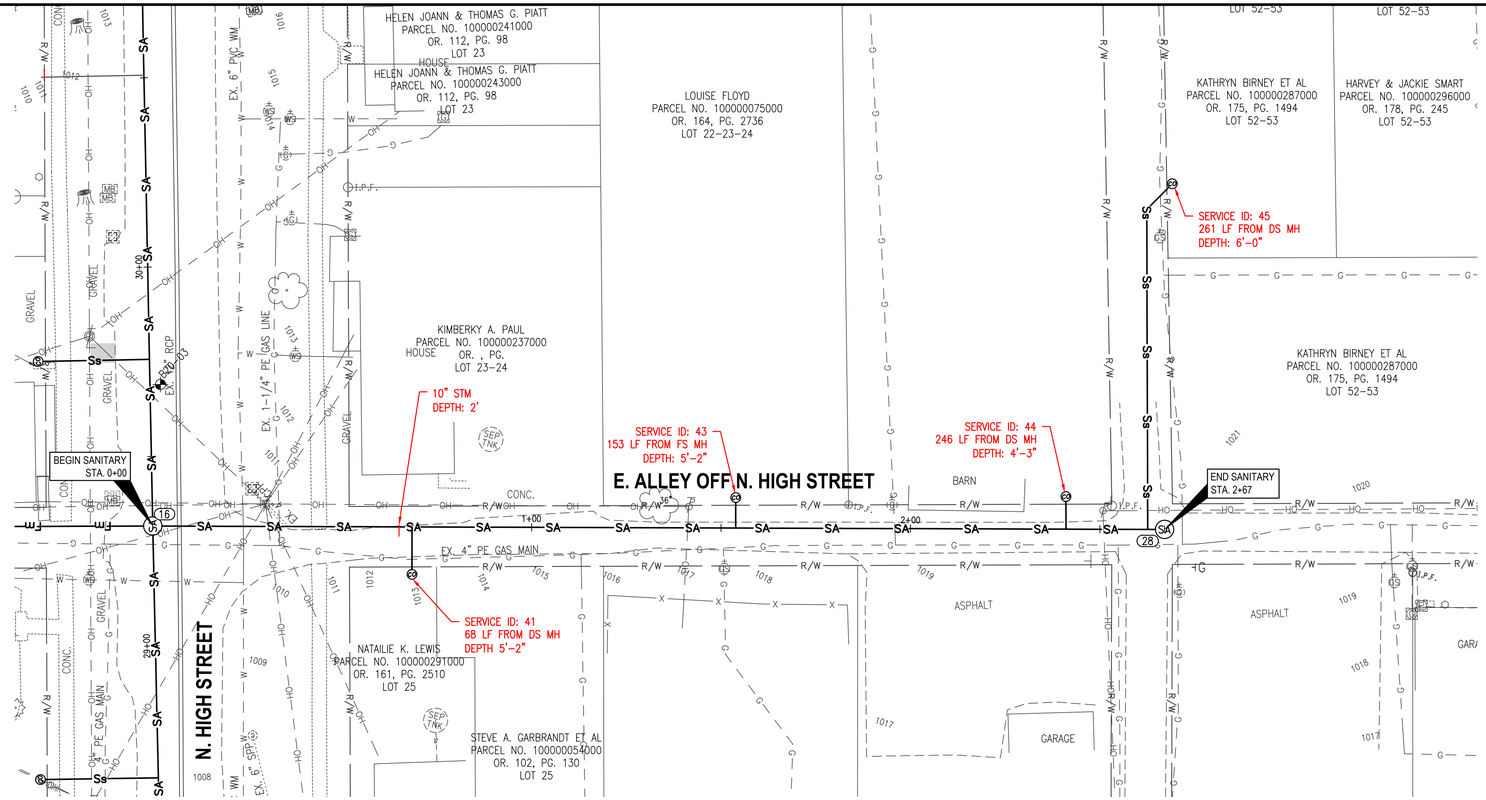
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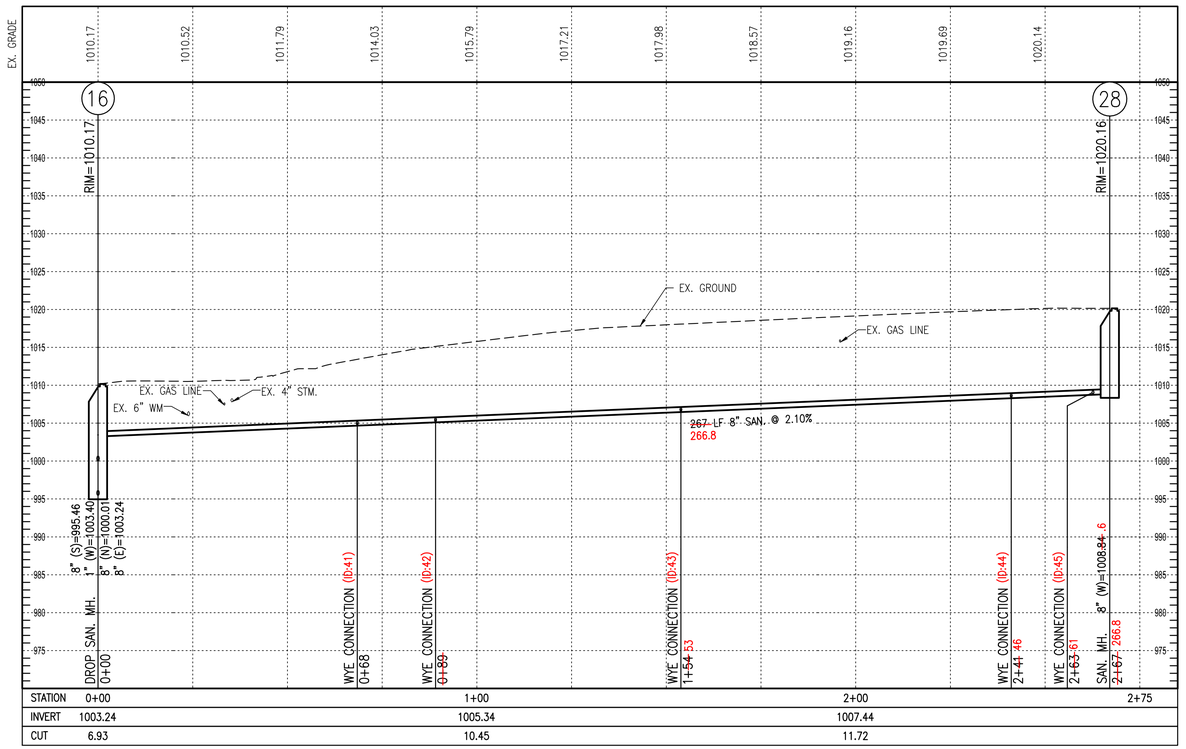
OHIO STREET P&P

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C-PP-14

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HARRISON COUNTY, OHIO

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HARRISON COUNTY
WATER & SEWER DISTRICT

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	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

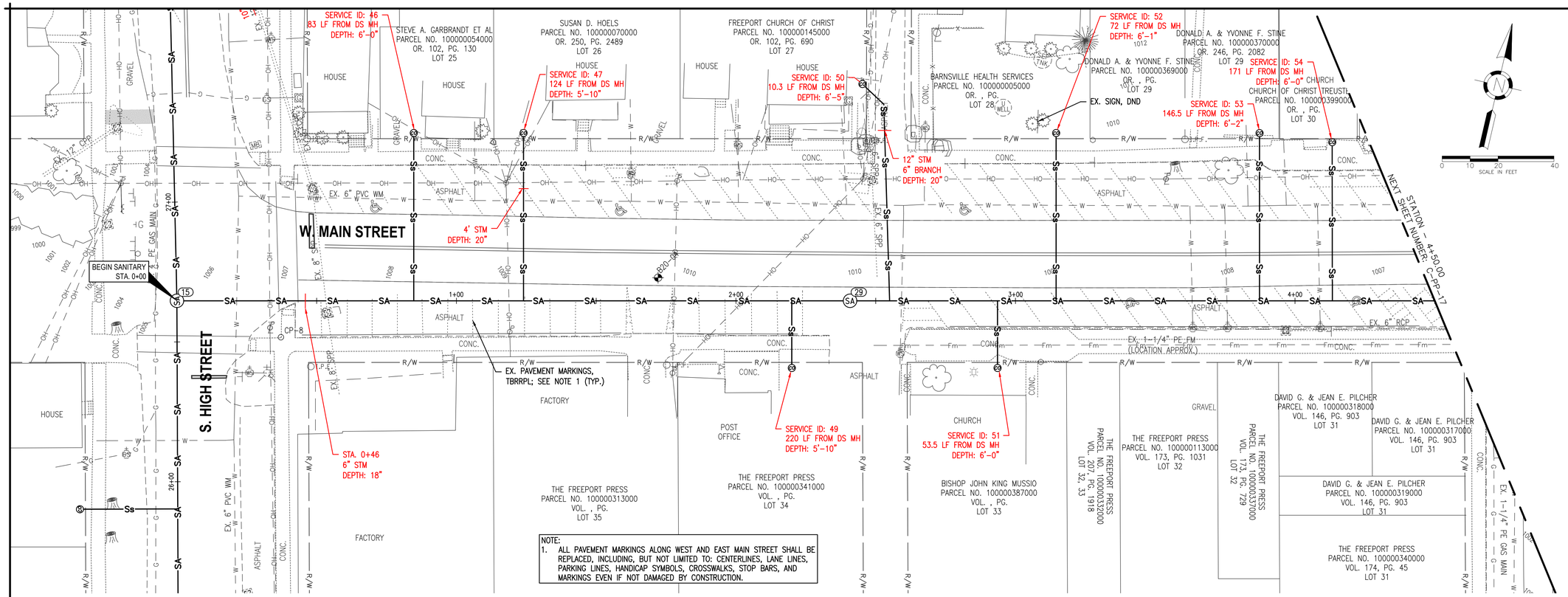
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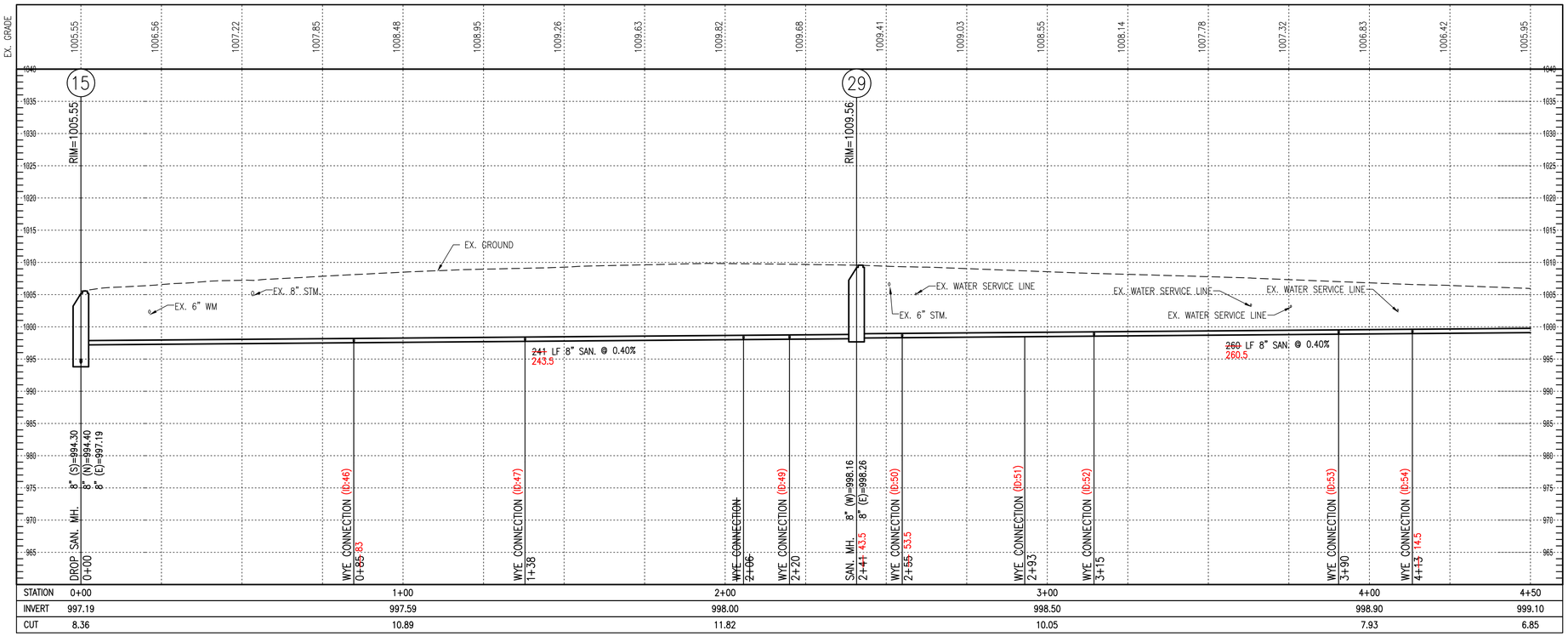
E. ALLEY OFF HIGH STREET P&P

Sheet Number:

C-PP-15

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INVERT	997.19	997.59	998.00	998.50	998.90	999.10
CUT	8.36	10.89	11.82	10.05	7.93	6.85

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Date: 08/10/2022

Project Title:

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HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
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	CONSTRUCTION	08/10/22
	REC	08/06/25

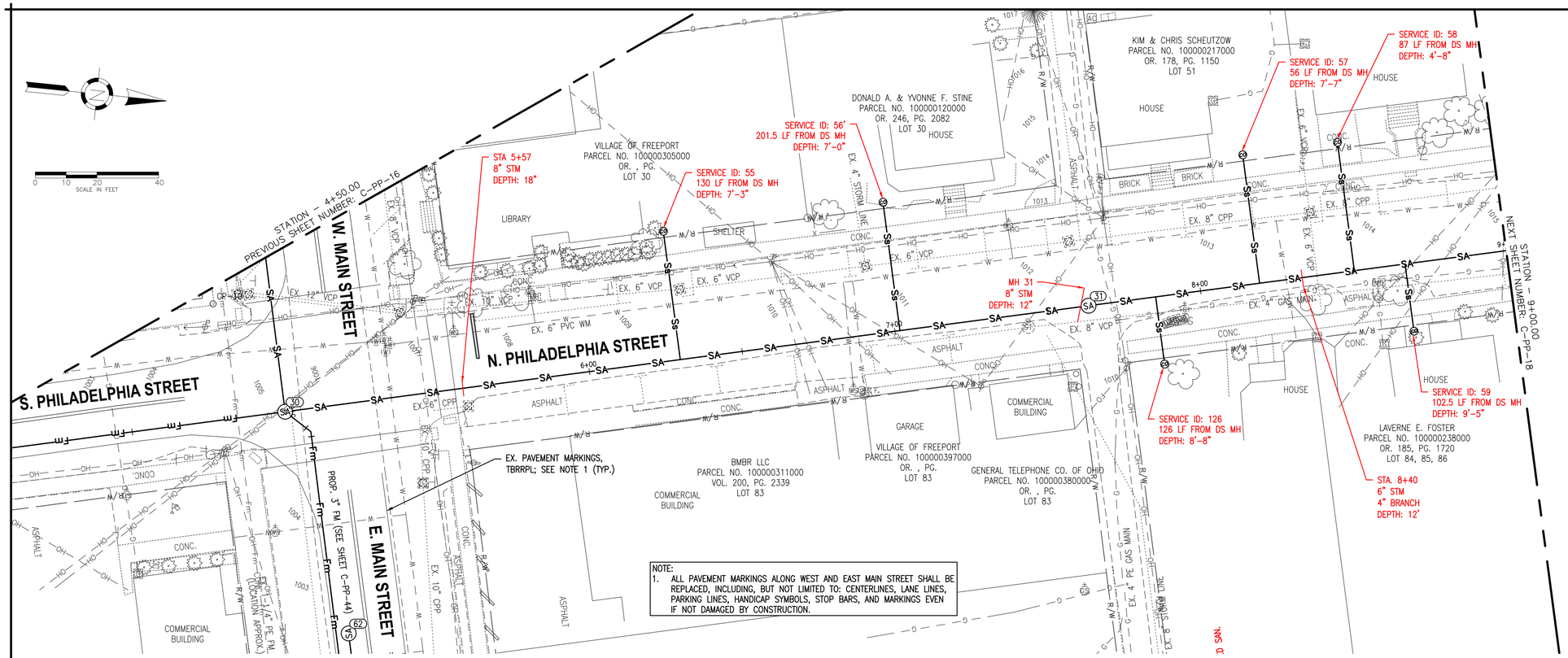
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Drawn By:	AJP
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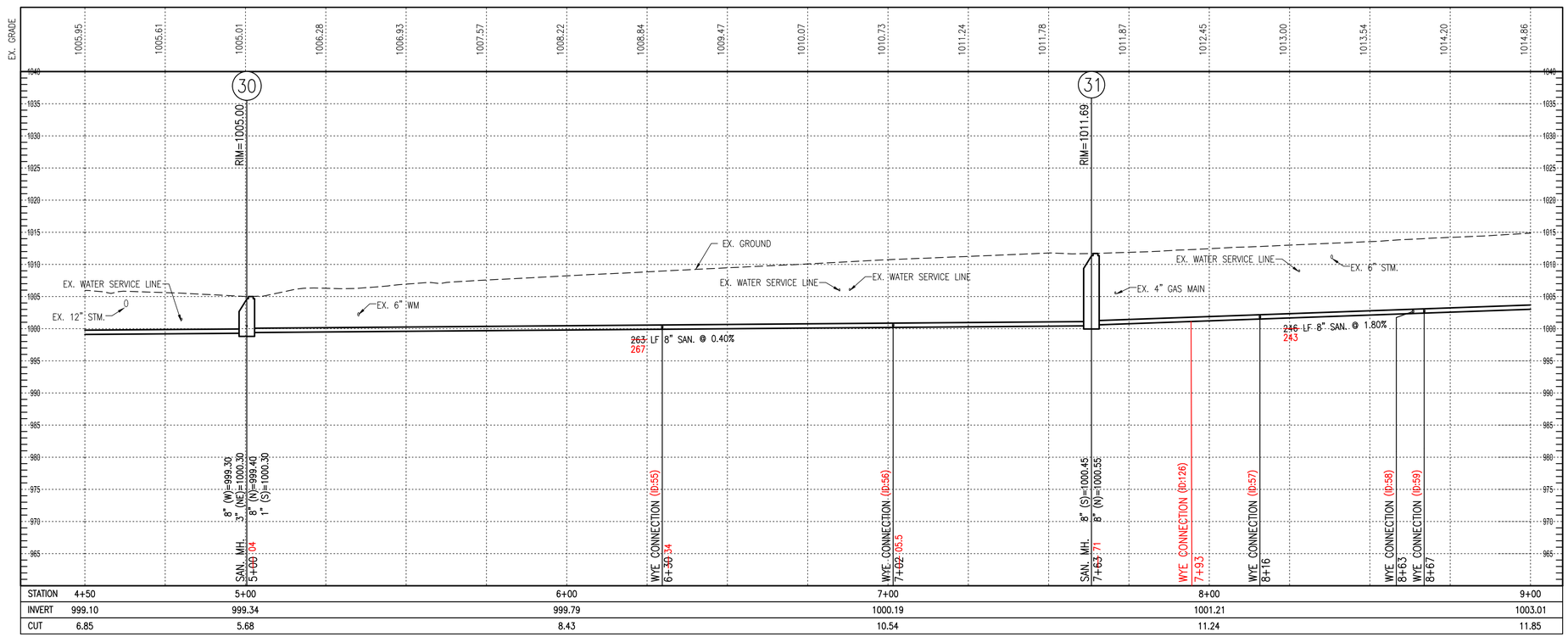
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W. MAIN STREET
P&P

Sheet Number:

C-PP-16





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	REC	08/06/25

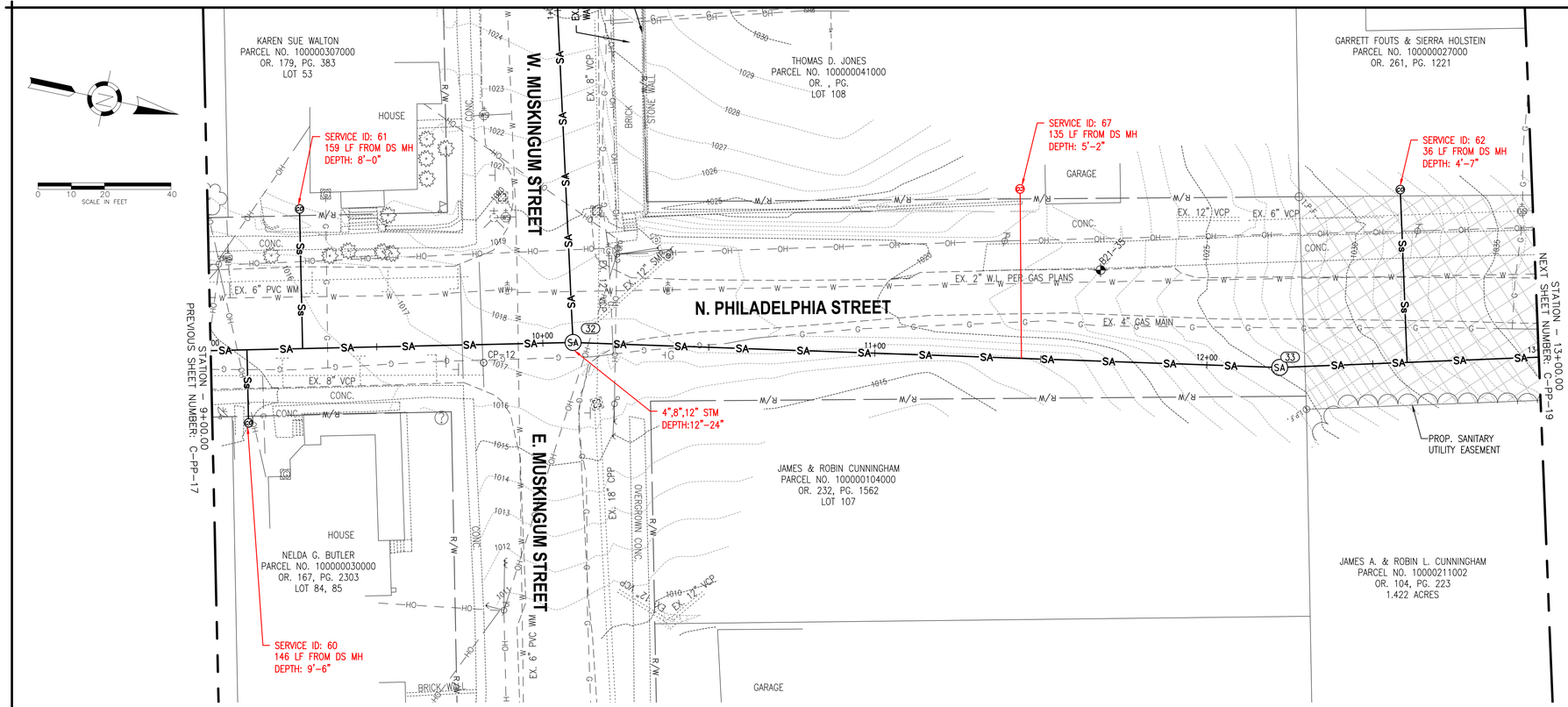
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Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
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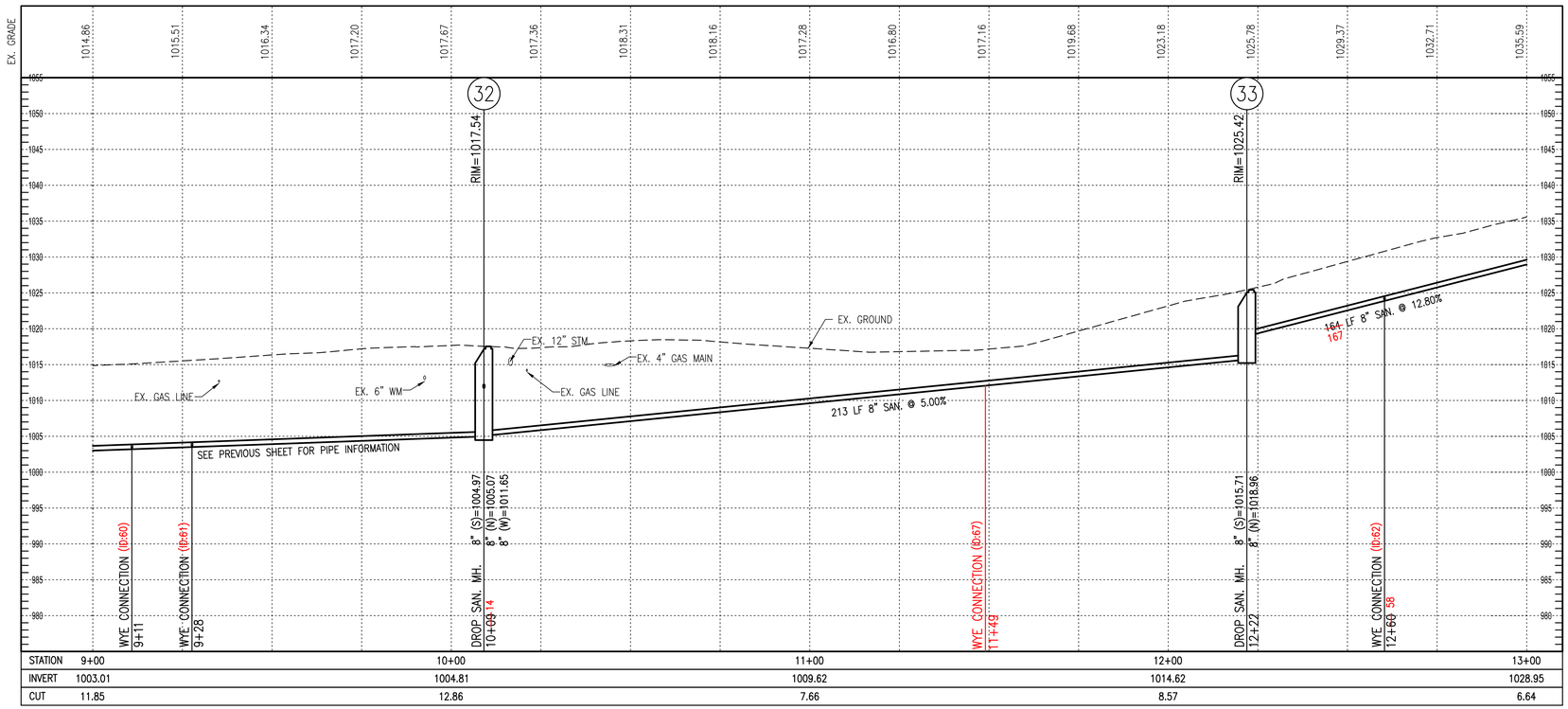
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N. PHILADELPHIA STREET P&P

Sheet Number:

C-PP-17





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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED
PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

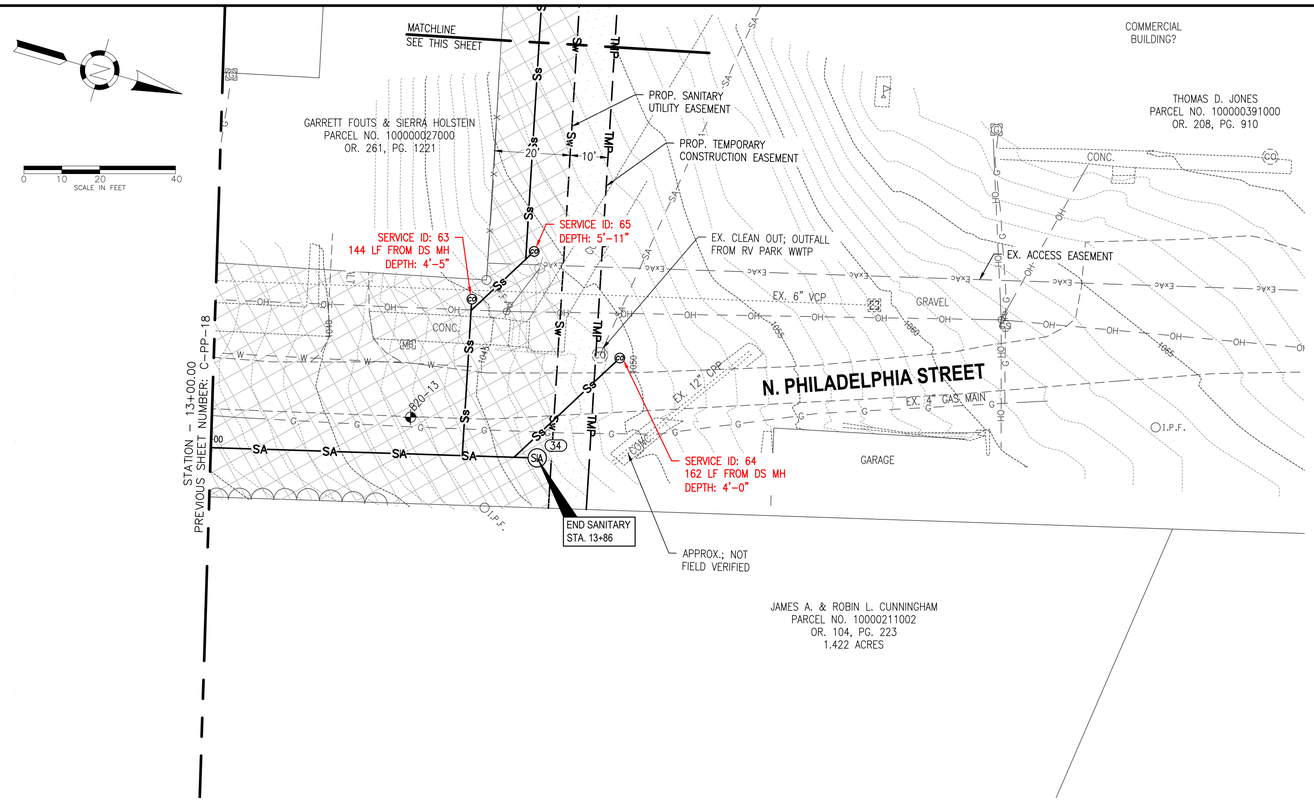
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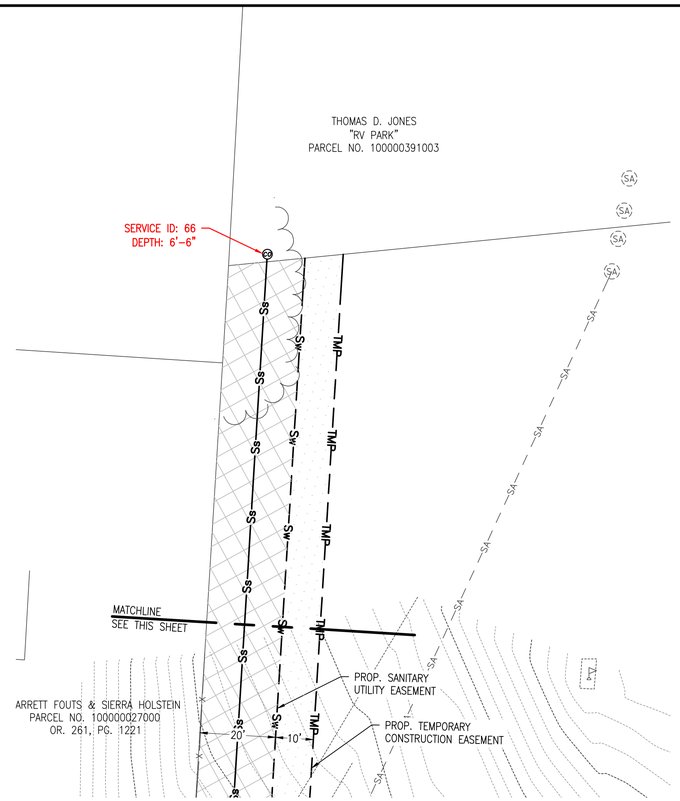
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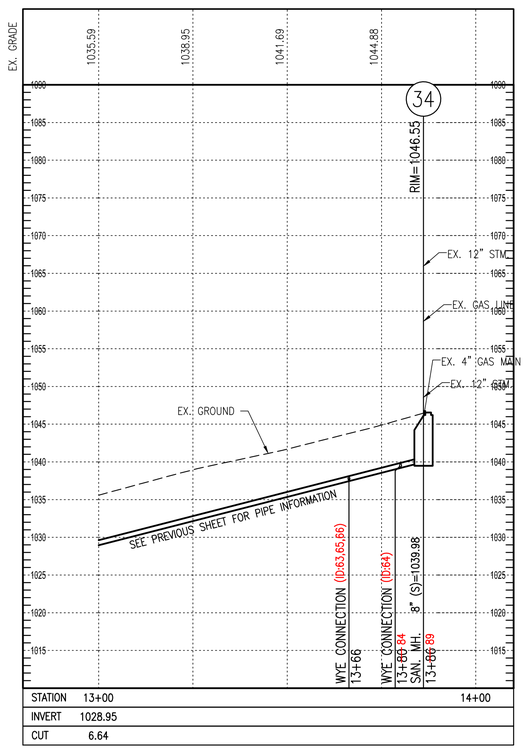
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MATCH LINE CONTINUATION



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Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

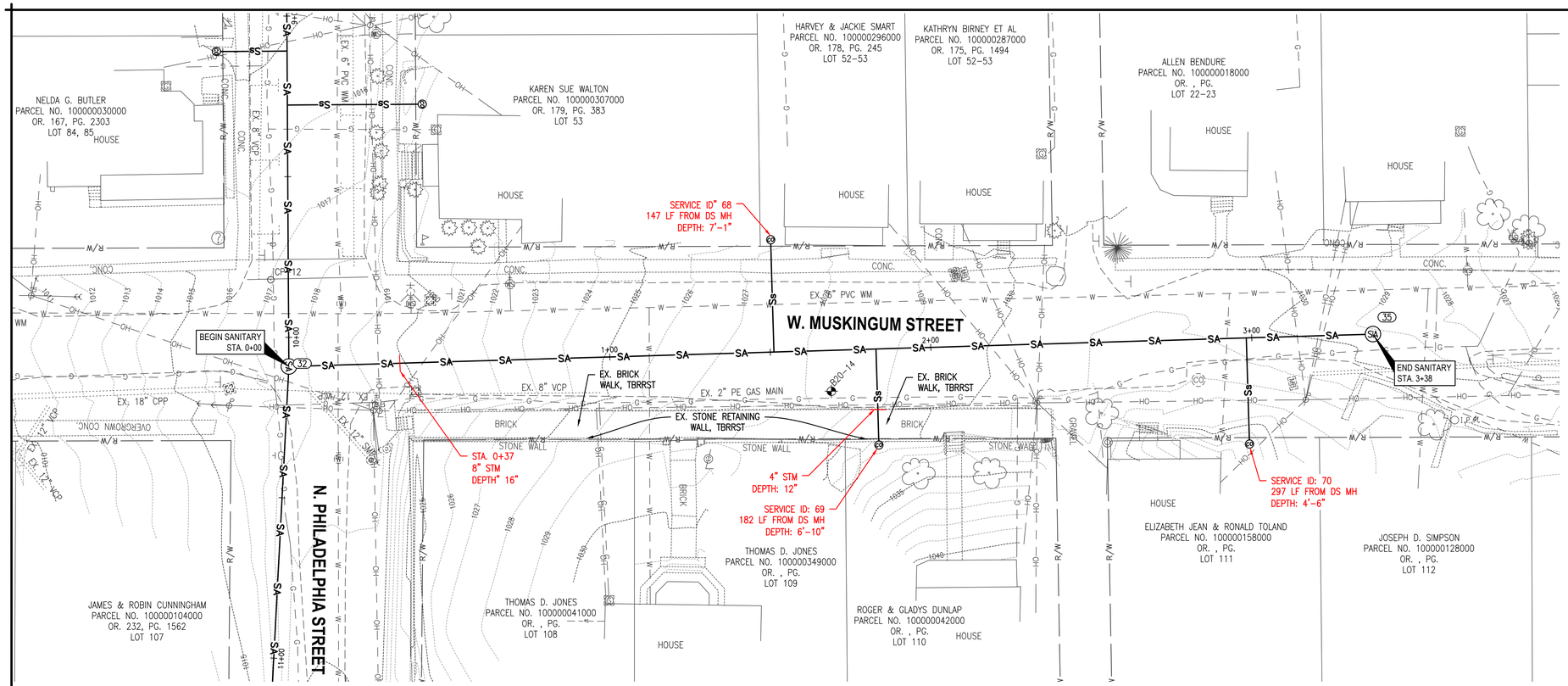
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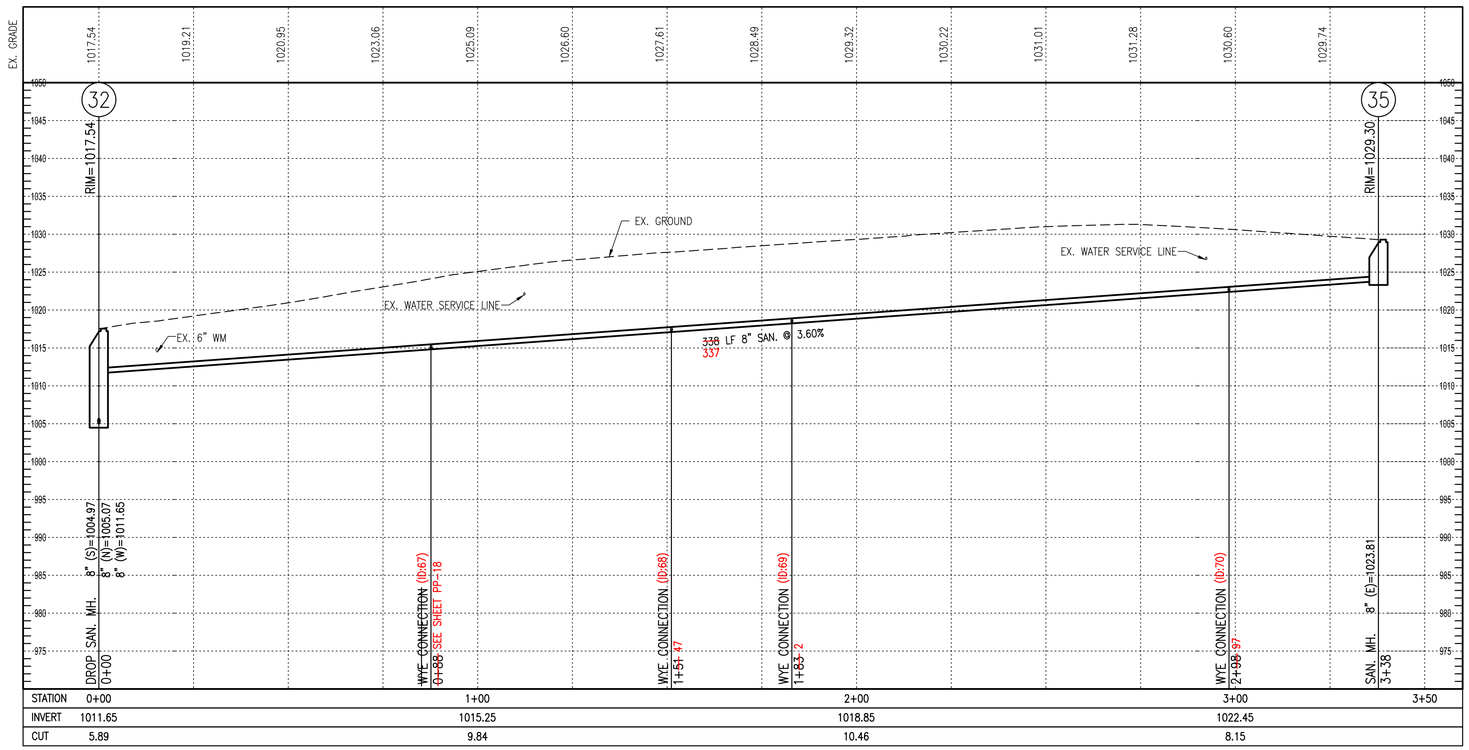
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C-PP-19

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Drawn By:	AJP
Check By:	CLG
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Issue Date:	AUGUST 2025

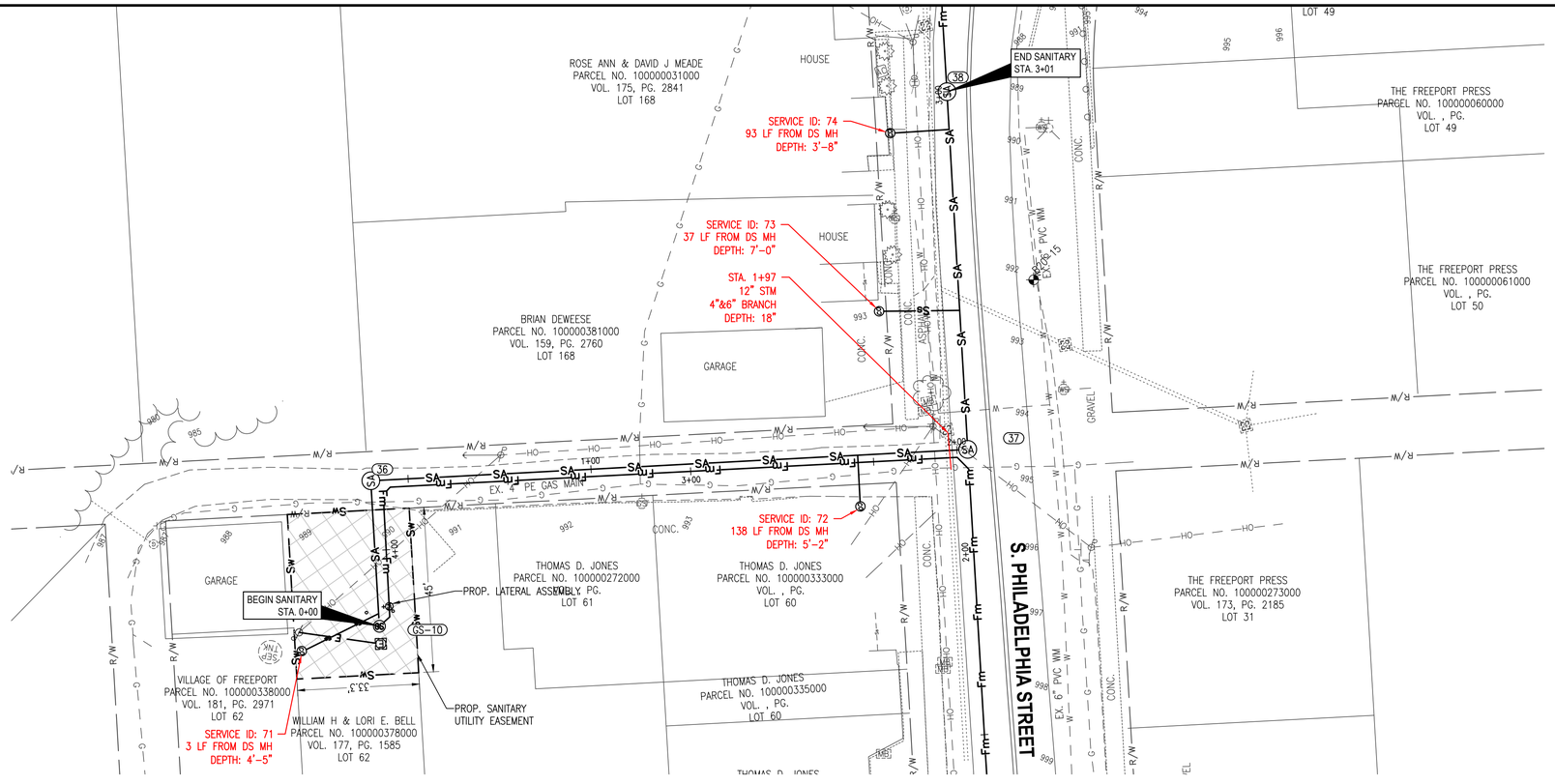
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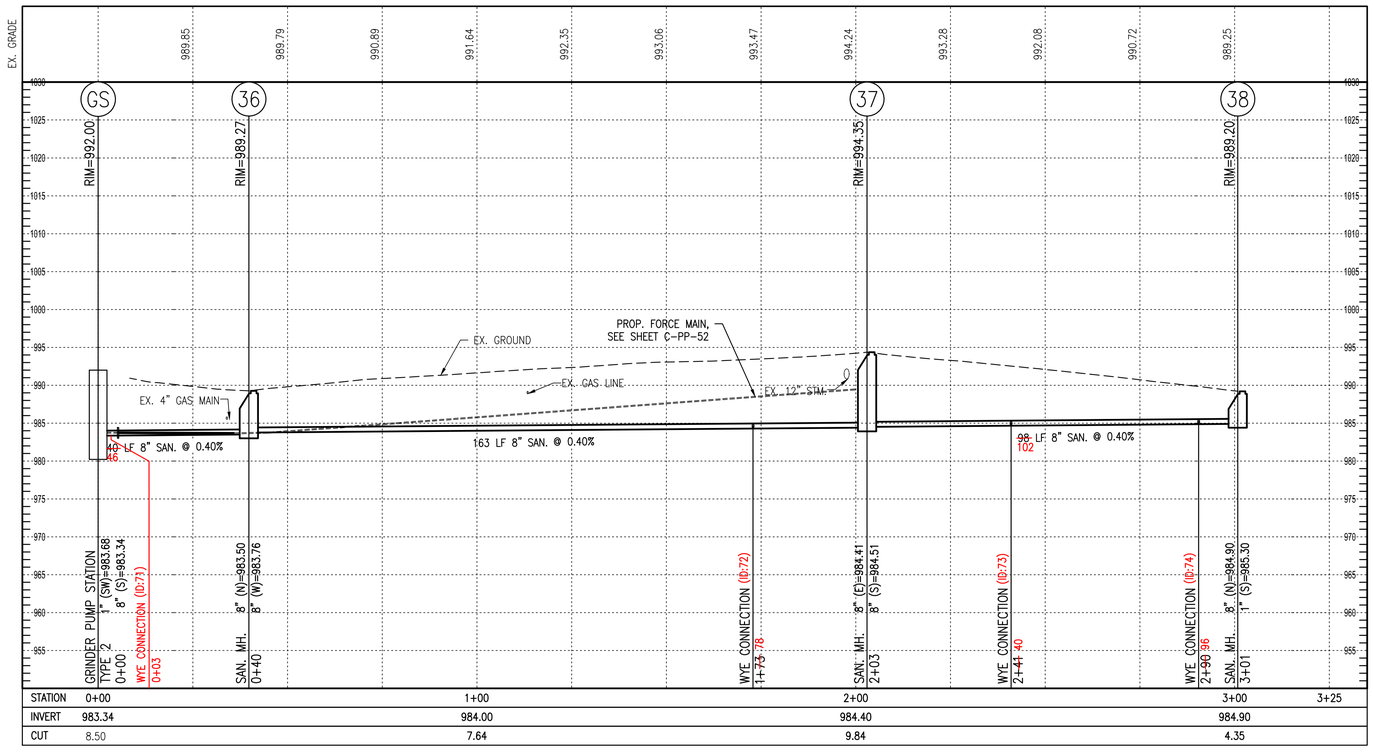
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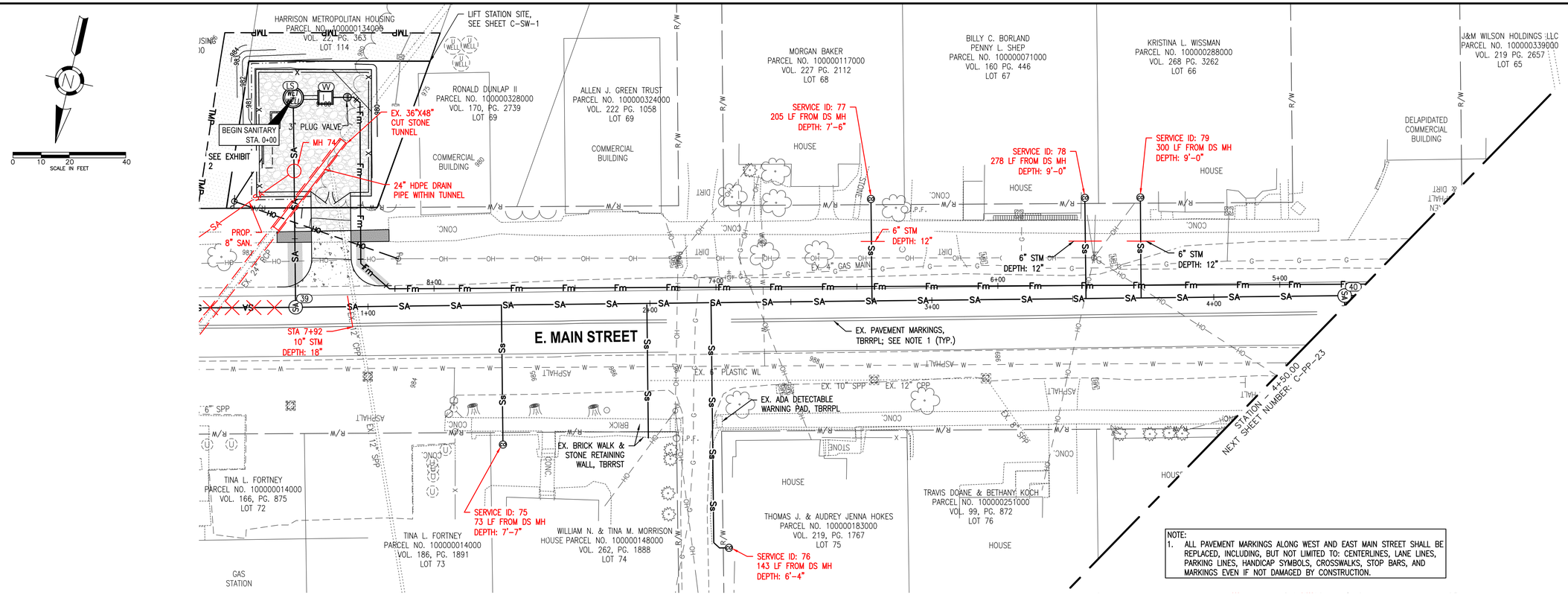
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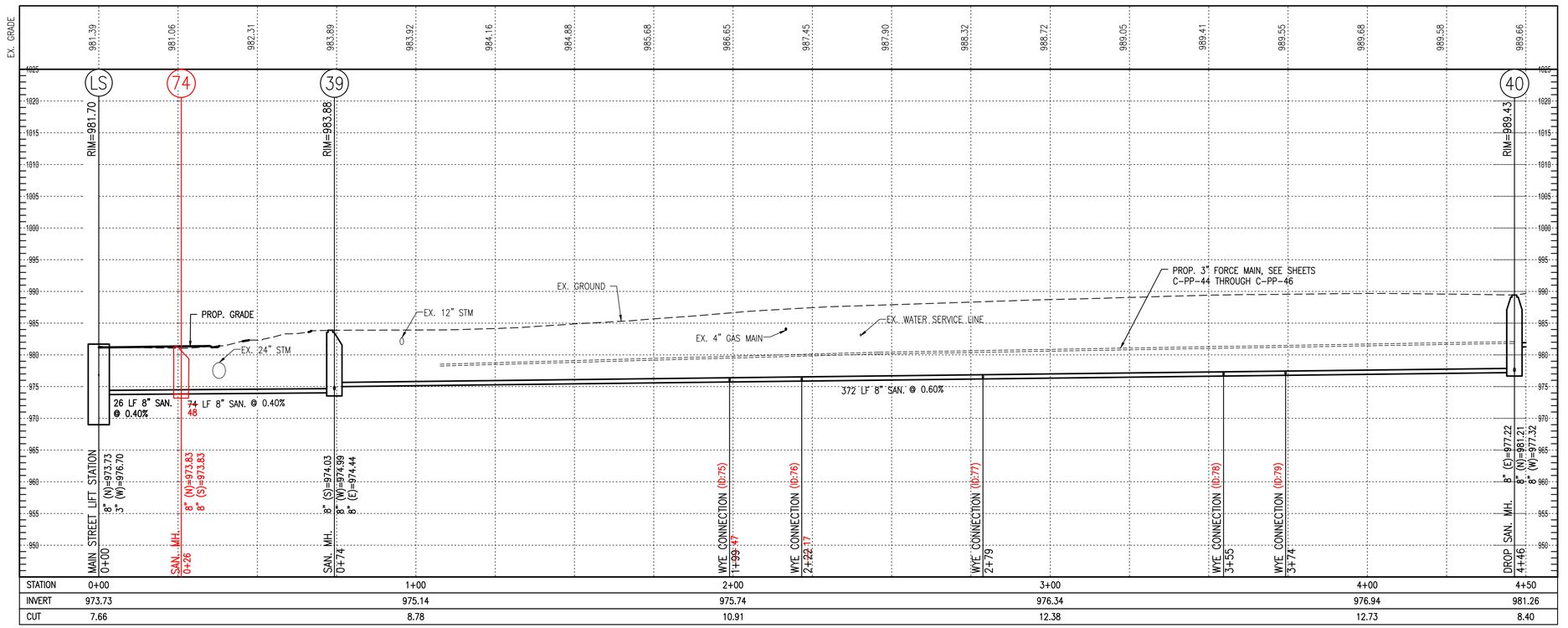
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Sheet Number:

C-PP-21

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Project No.:	HCY005
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Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

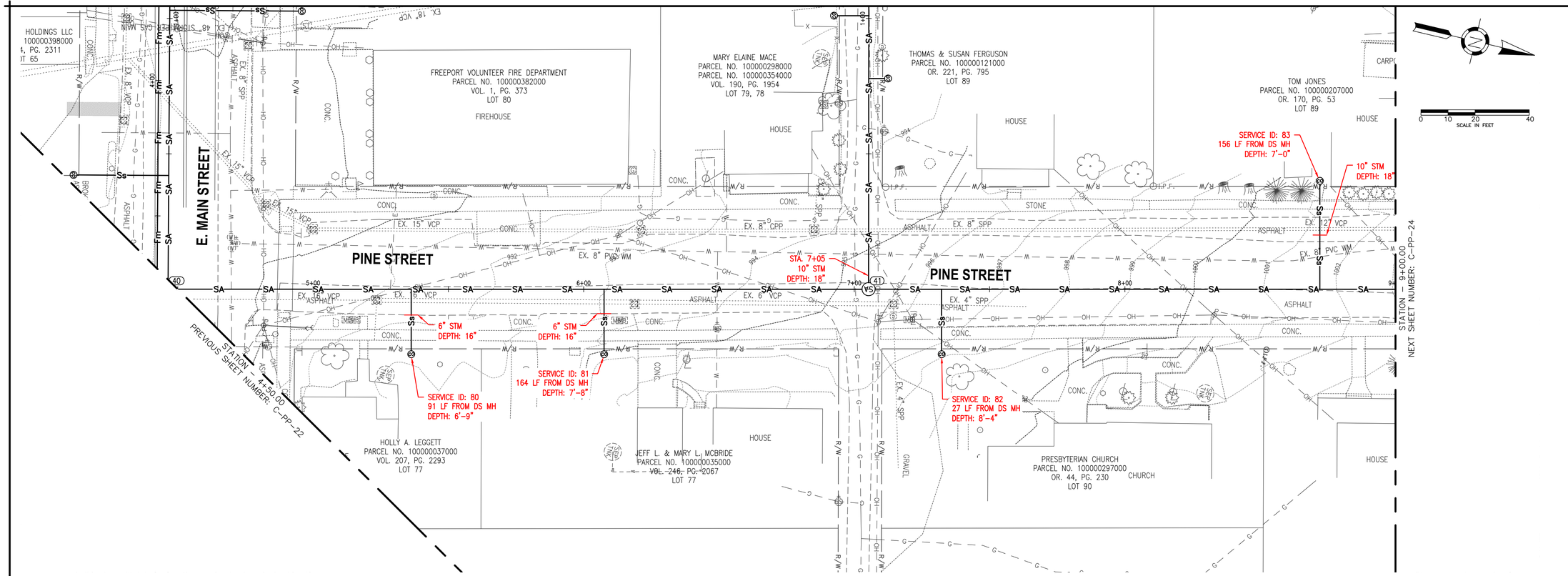
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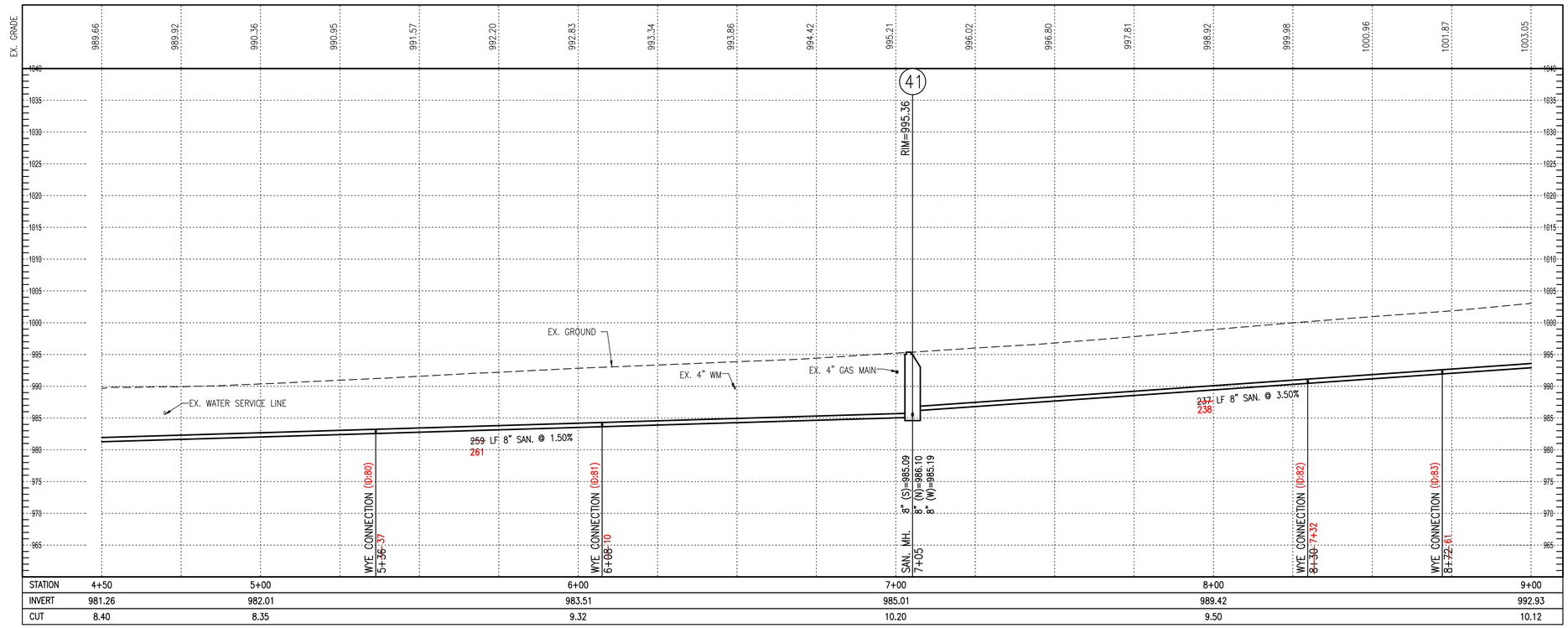
E. MAIN STREET
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Sheet Number:

C-PP-22

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CUT	8.40	8.35	9.32	10.20	9.50	10.12

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SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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	CONSTRUCTION	08/10/22
	REC	08/06/25

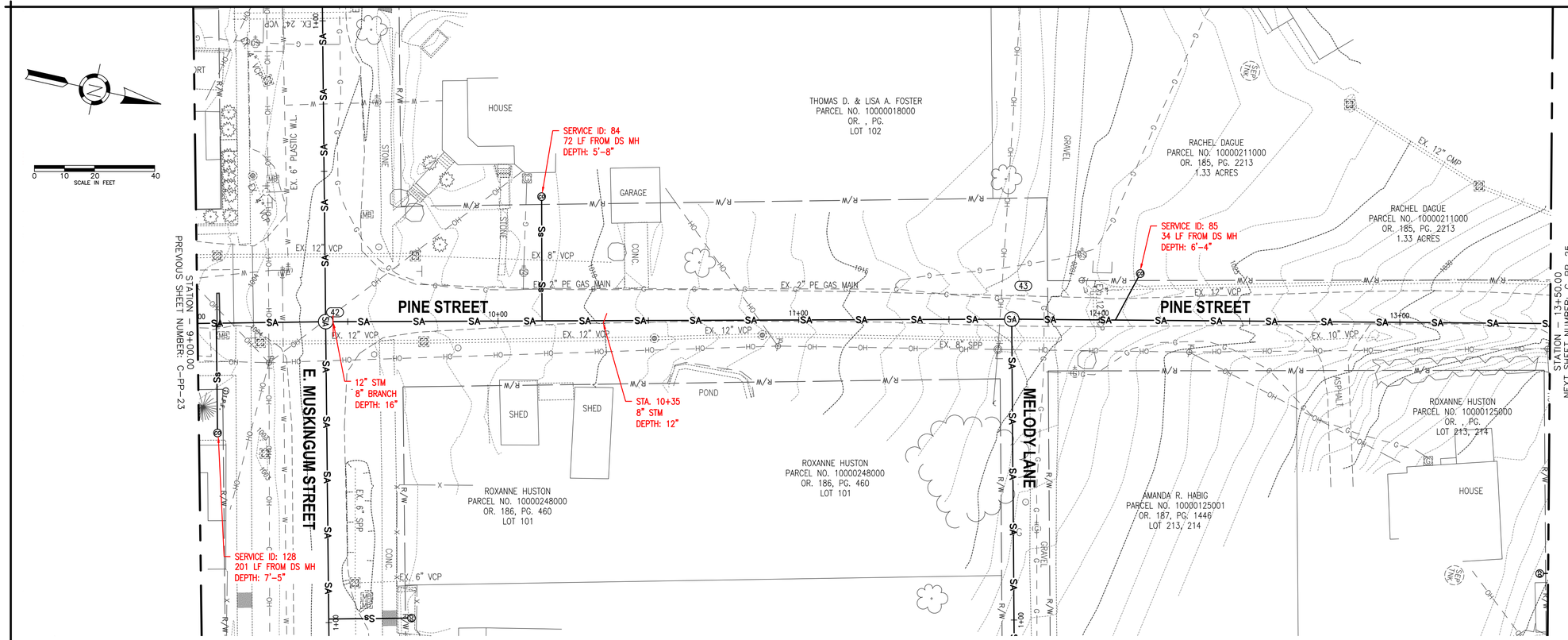
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Drawn By:	DWS
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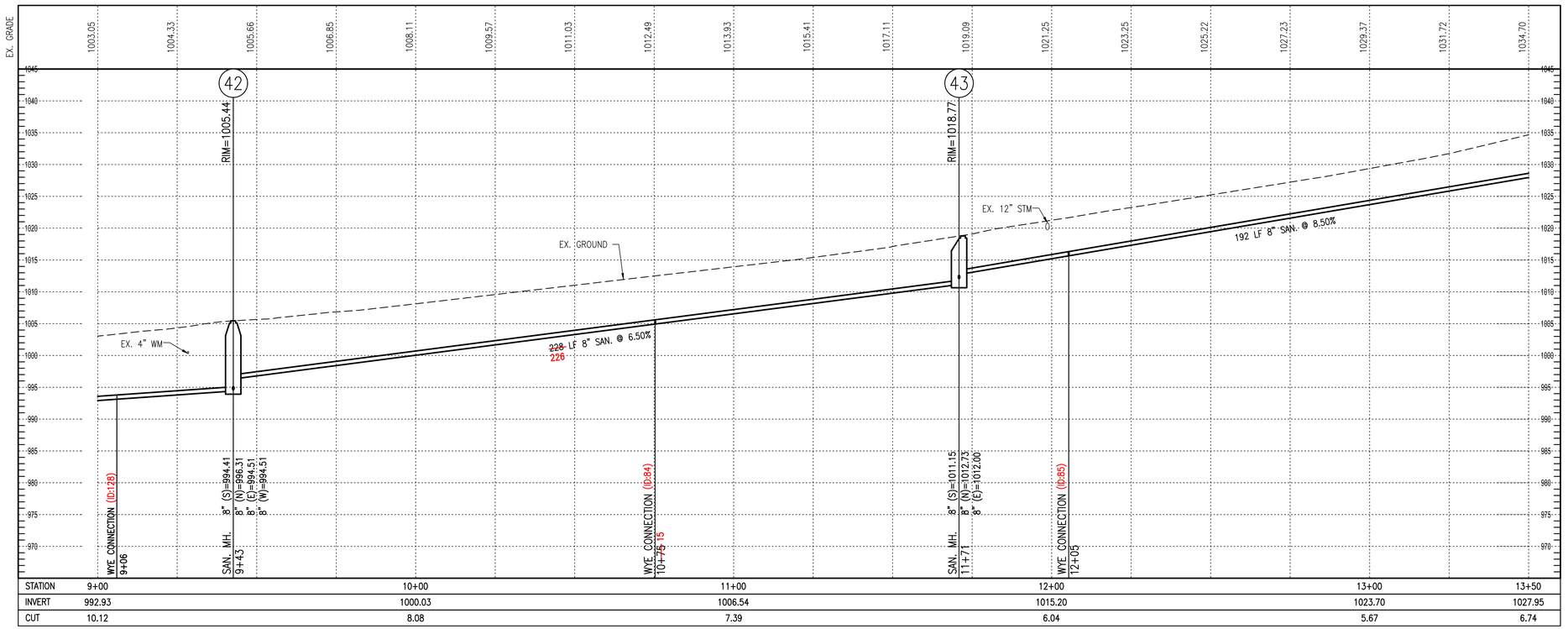
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PINE STREET P&P

Sheet Number:

C-PP-23





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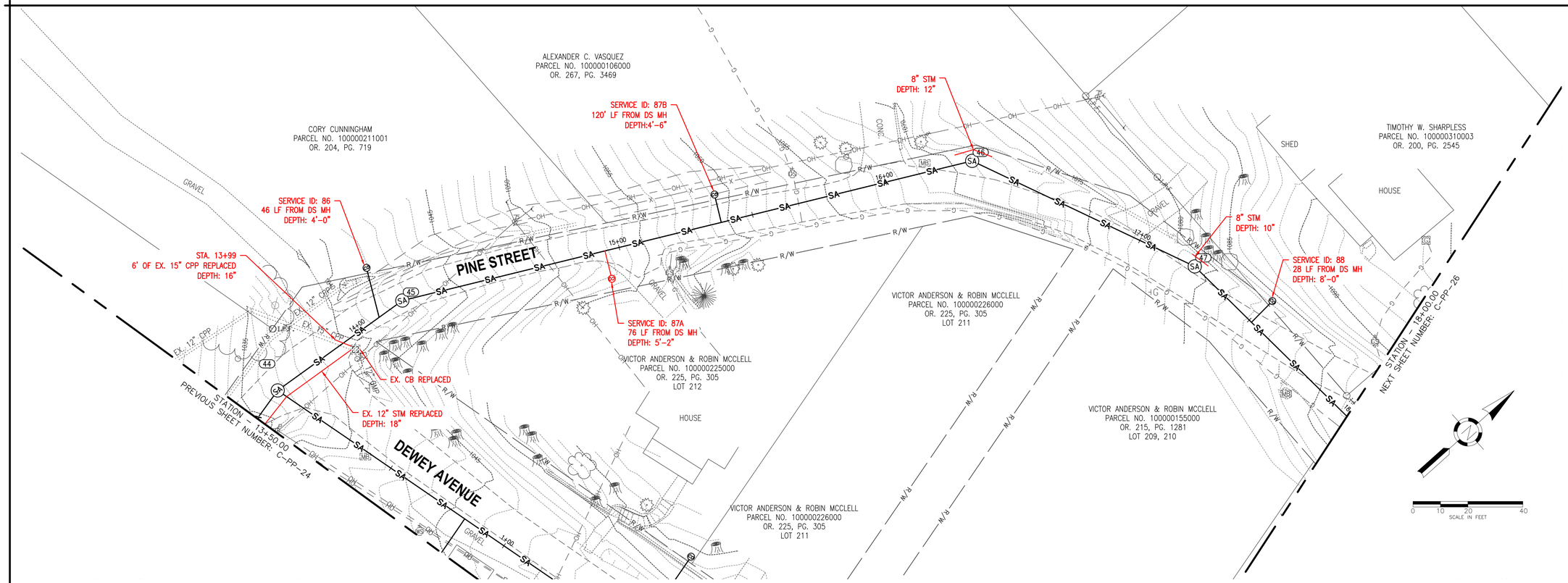
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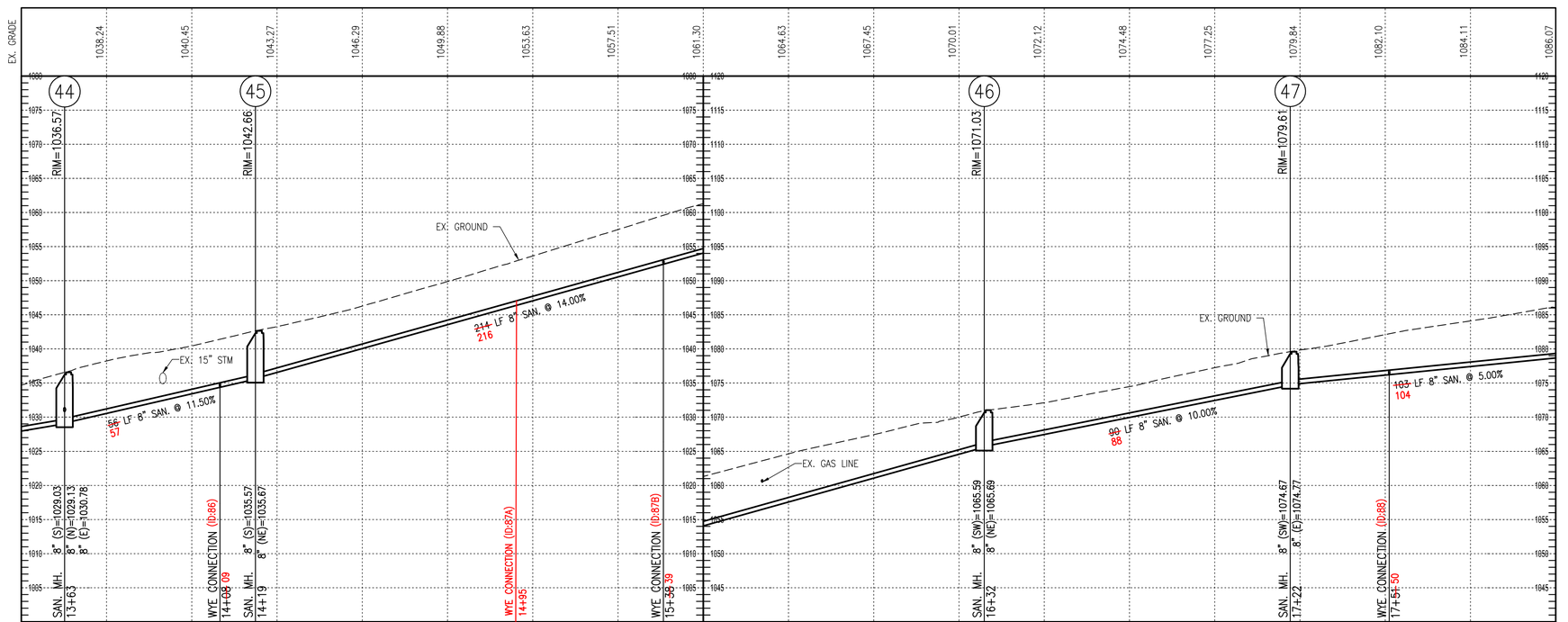
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PINE STREET P&P

Sheet Number:

C-PP-24





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CUT	7.02	6.57	6.39	4.80	

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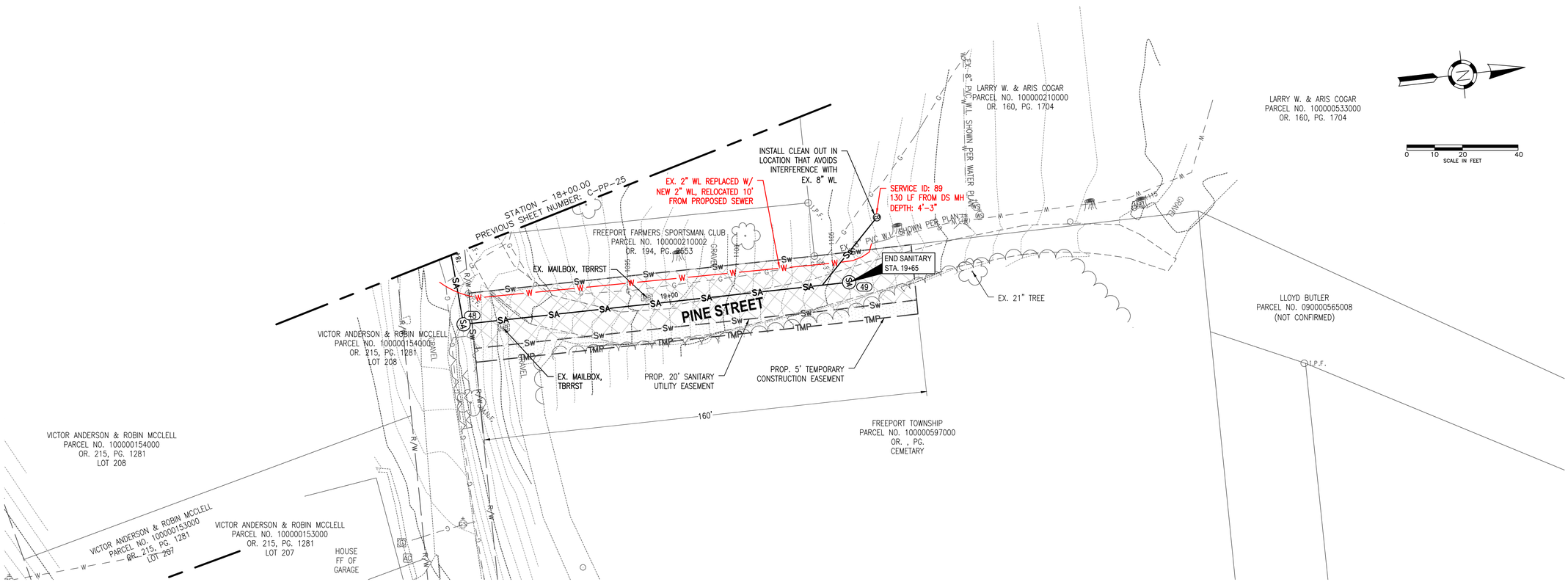
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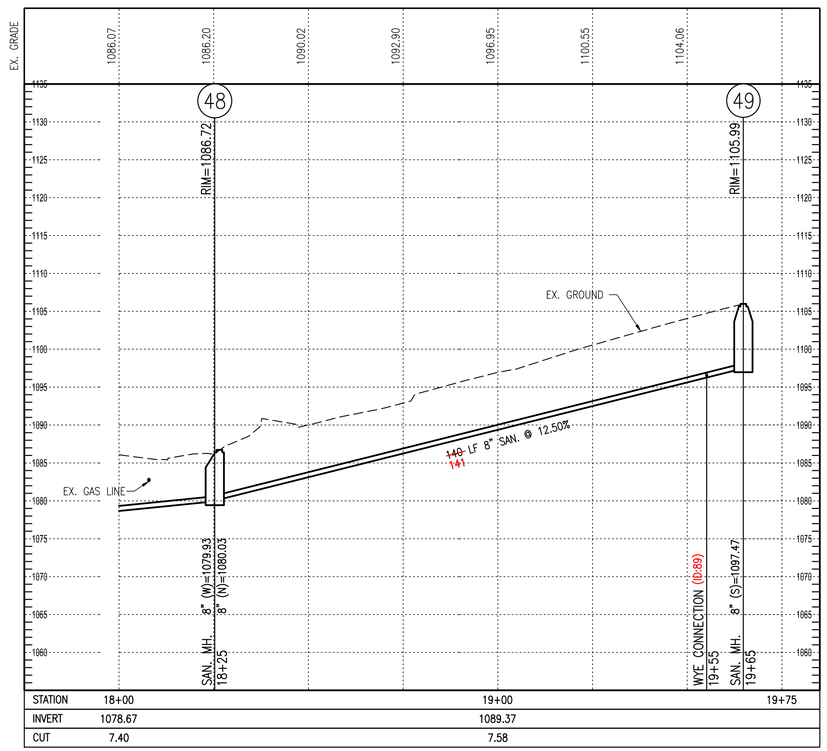
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Sheet Number:

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NOTE:
1. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CLEARING AND GRUBBING TO PROPERLY INSTALL PROPOSED SEWER. ALL DEBRIS SHALL BE HAULED TO AN APPROVED LOCATION. CLEARING AND GRUBBING LIMITS ARE 10 FEET EACH SIDE OF CENTERLINE OF THE PROPOSED SEWER.

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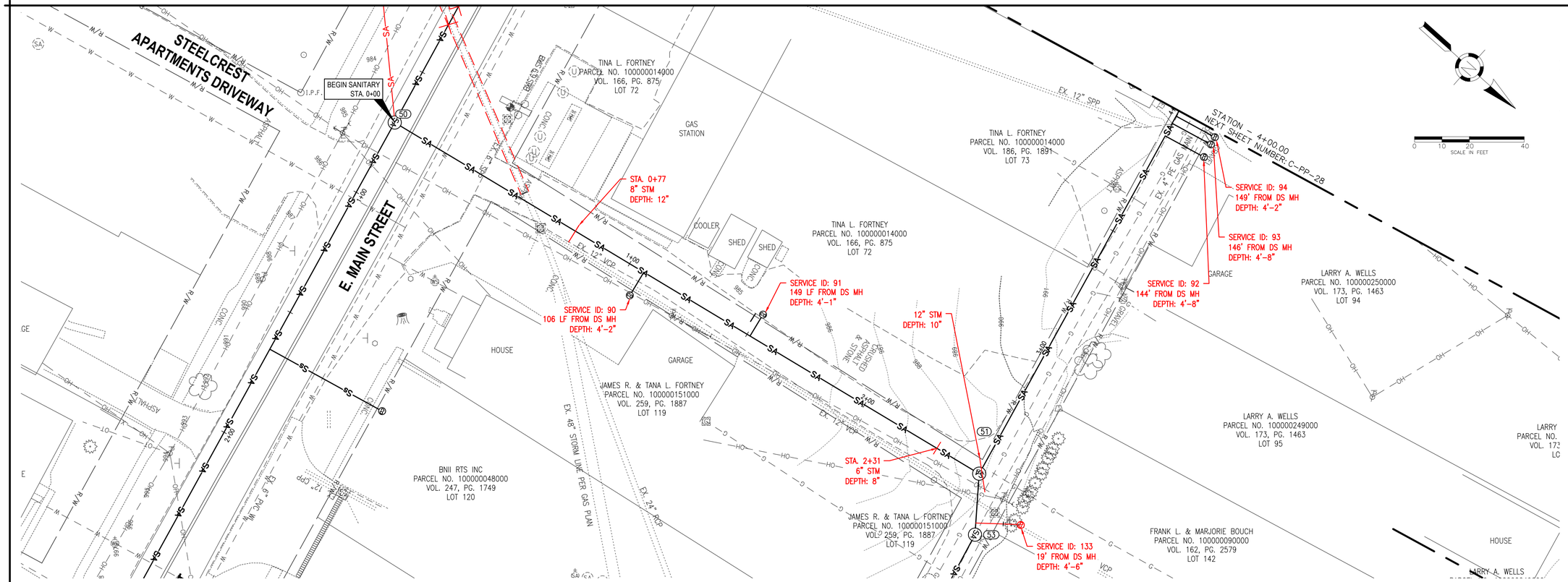
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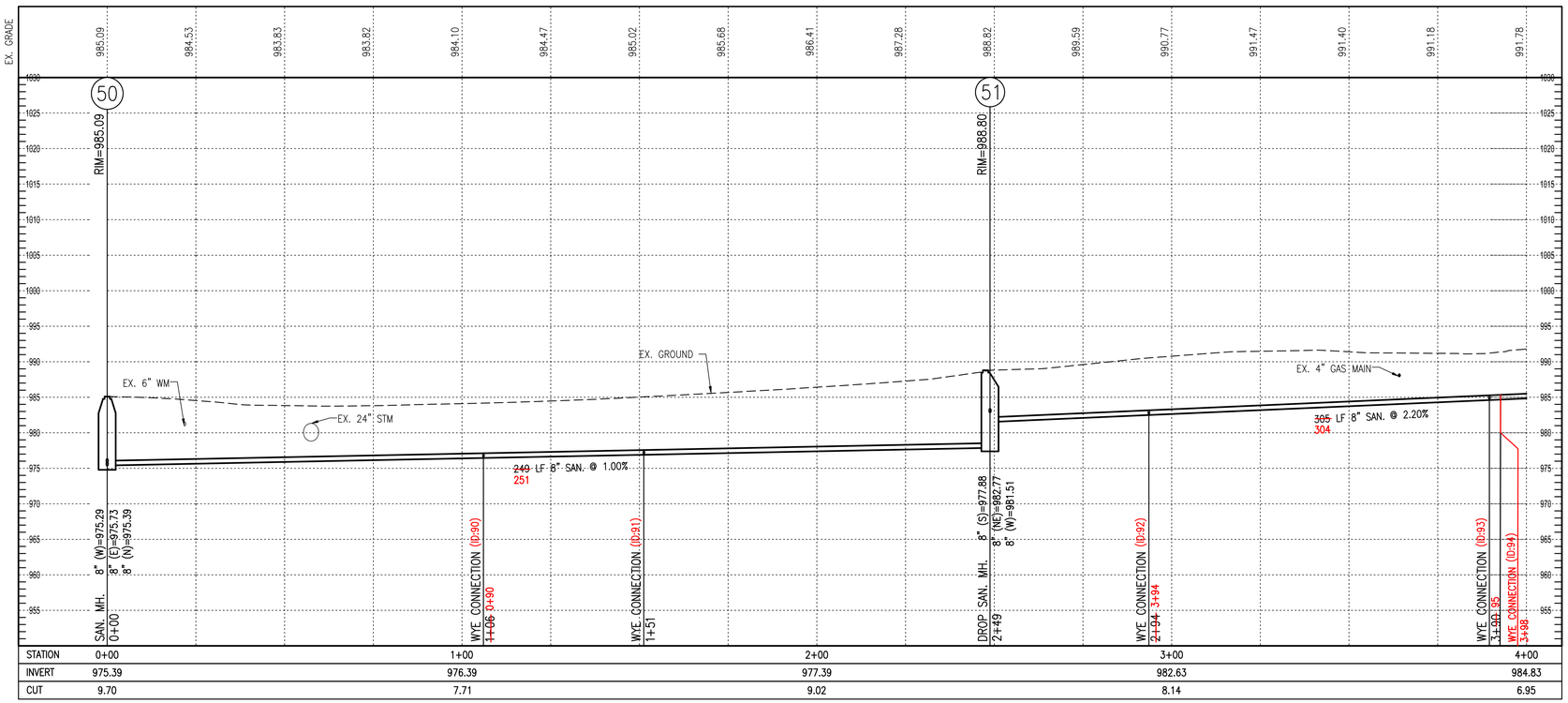
PINE STREET P&P

Sheet Number:

C-PP-26

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STATION	0+00	1+00	2+00	3+00	4+00
INVERT	975.39	976.39	977.39	982.63	984.83
CUT	9.70	7.71	9.02	8.14	6.95

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WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

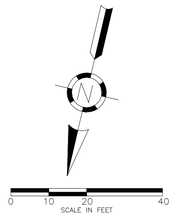
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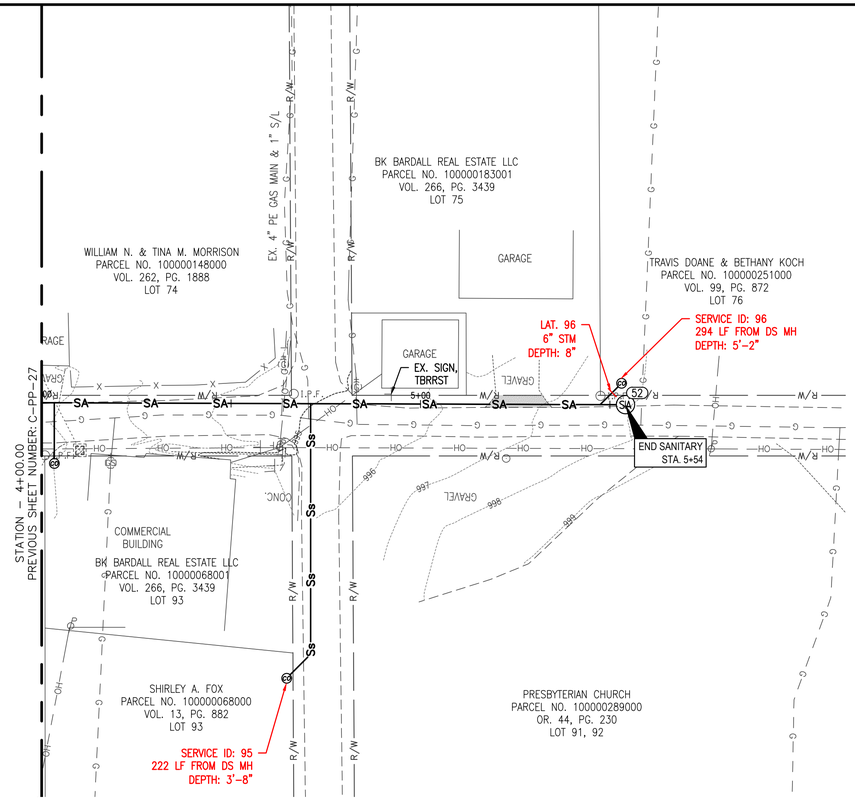
FAMILY DOLLAR
ALLEY P&P

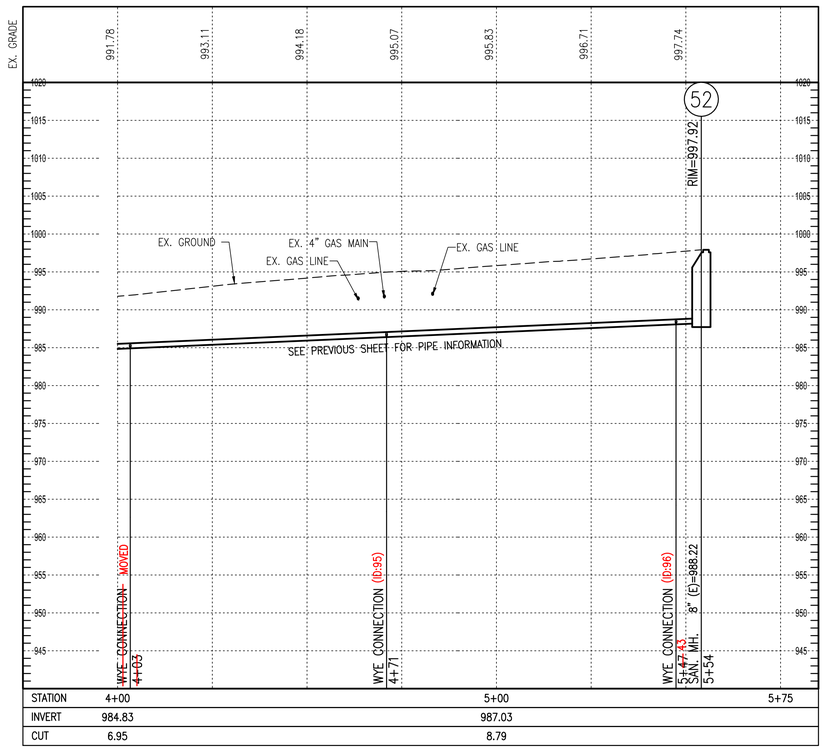
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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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	REC	08/06/25

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Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
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Issue Date:	AUGUST 2025

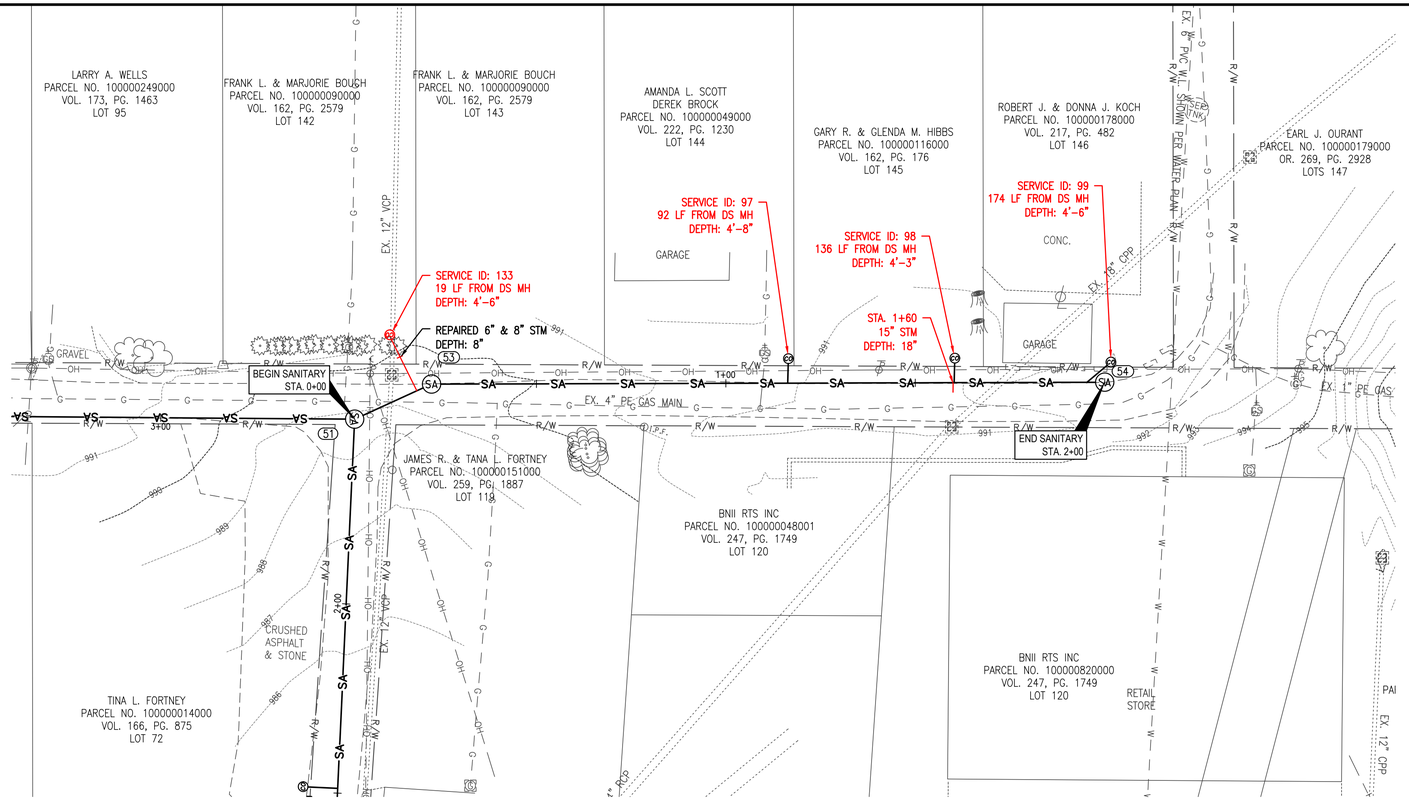
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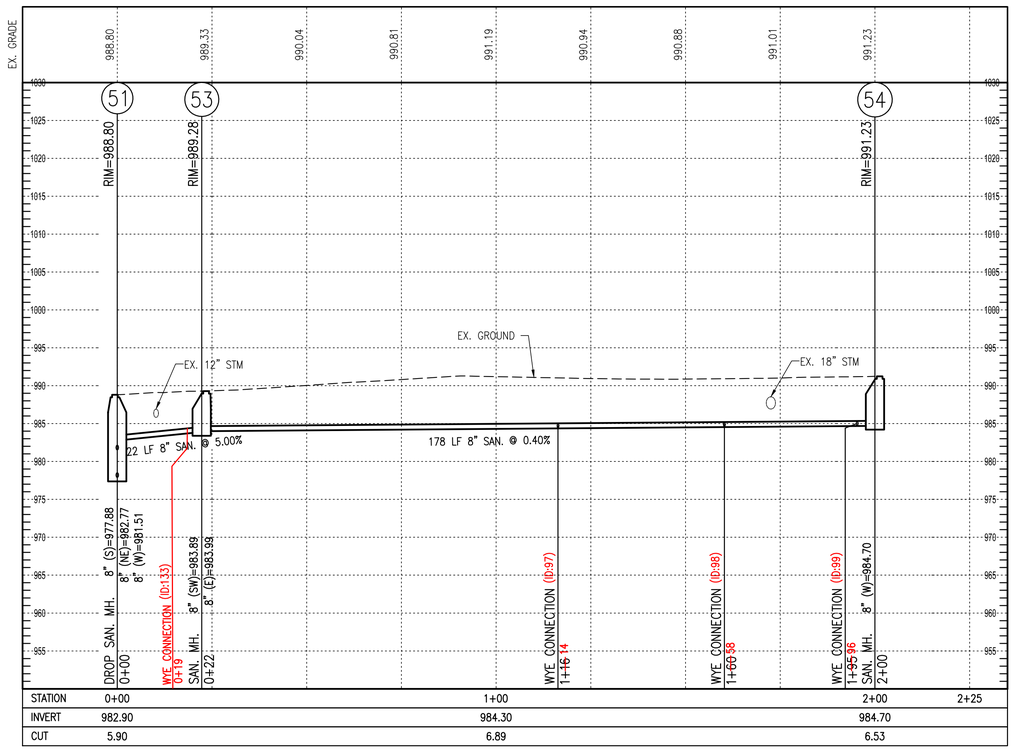
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ALLEY P&P

Sheet Number:

C-PP-28

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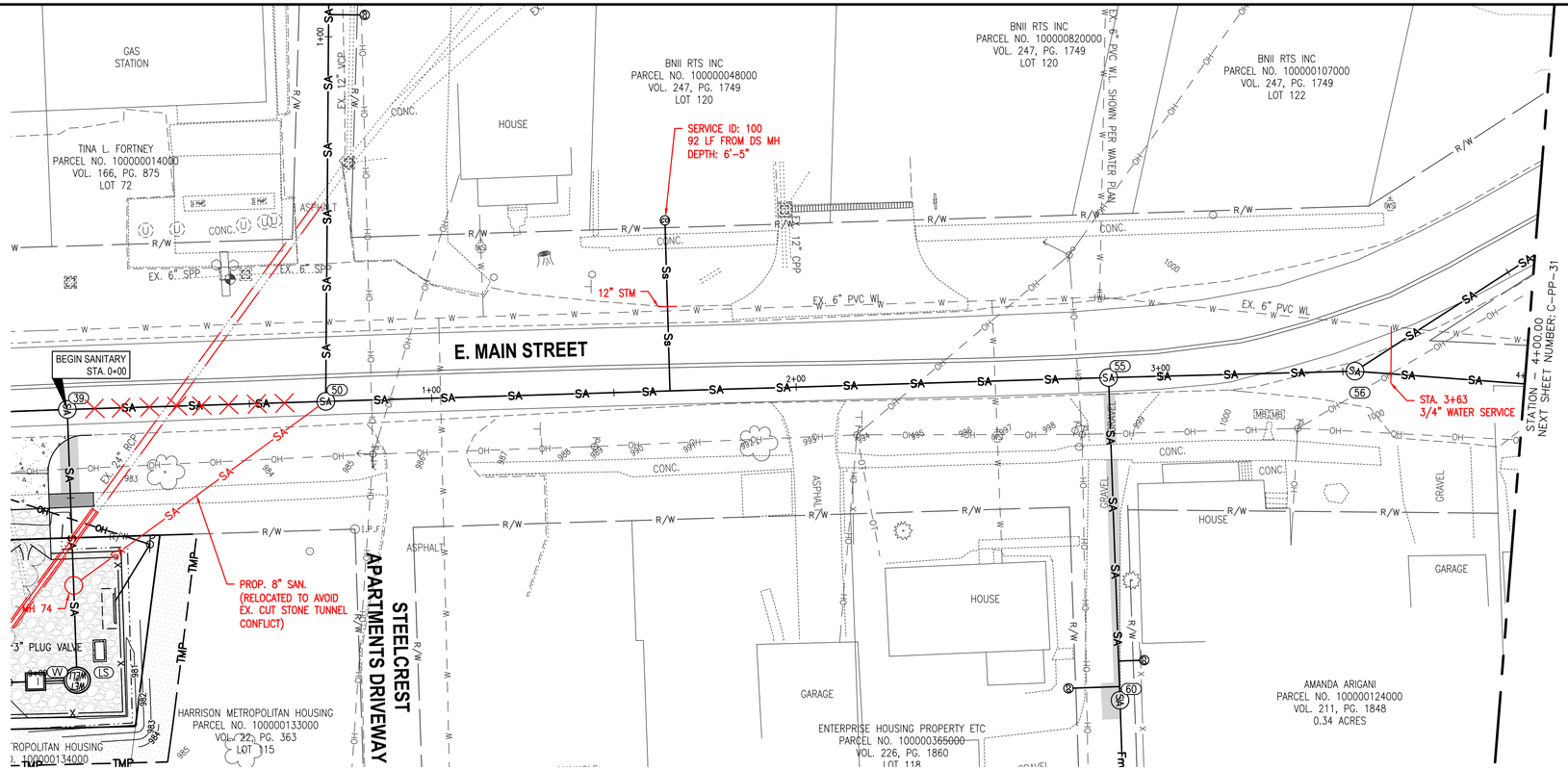
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ALLEY P&P

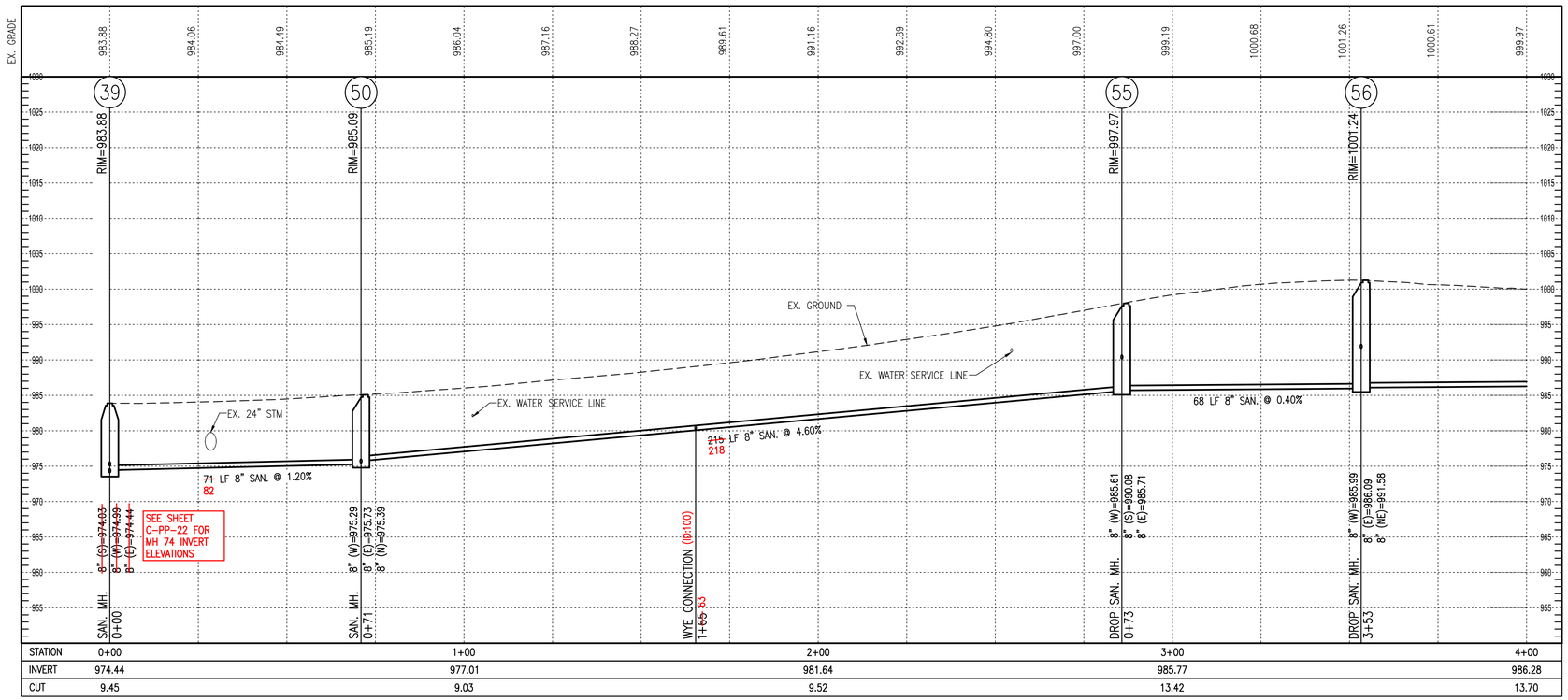
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STATION	0+00	1+00	2+00	3+00	4+00
INVERT	974.44	977.01	981.64	985.77	986.28
CUT	9.45	9.03	9.52	13.42	13.70

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HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

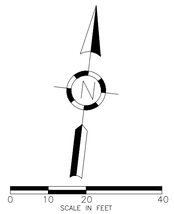
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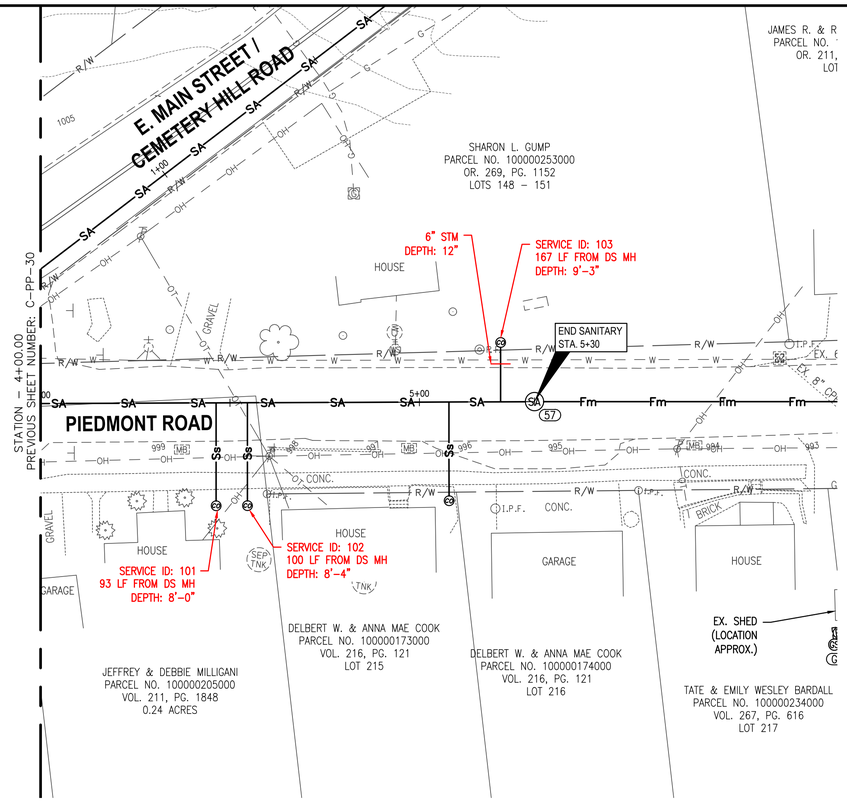
E. MAIN STREET AND PIEDMONT ROAD P&P

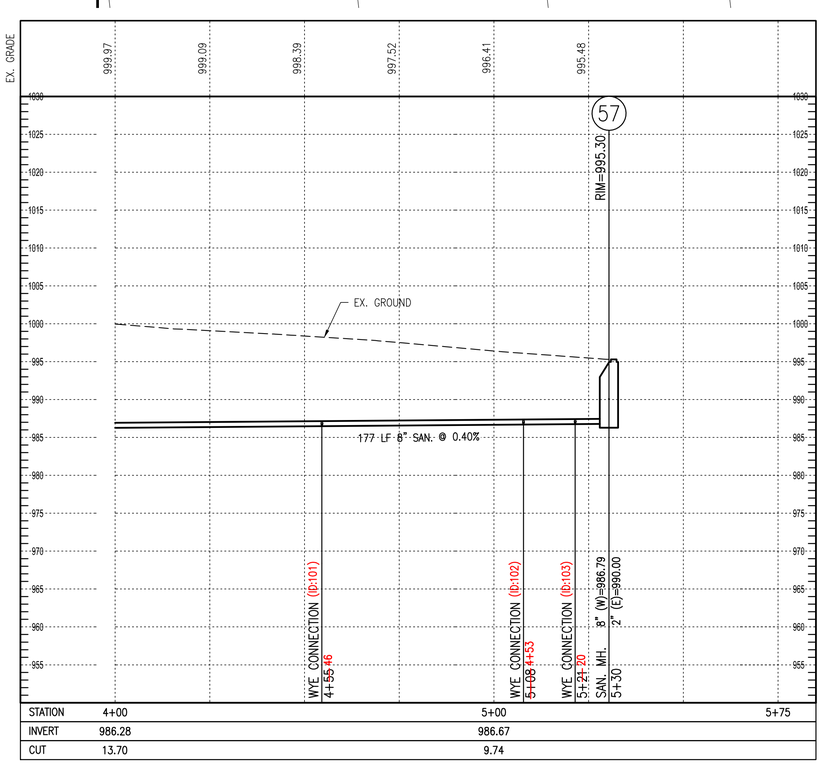
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SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
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	FNL 100%	06/04/21
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	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

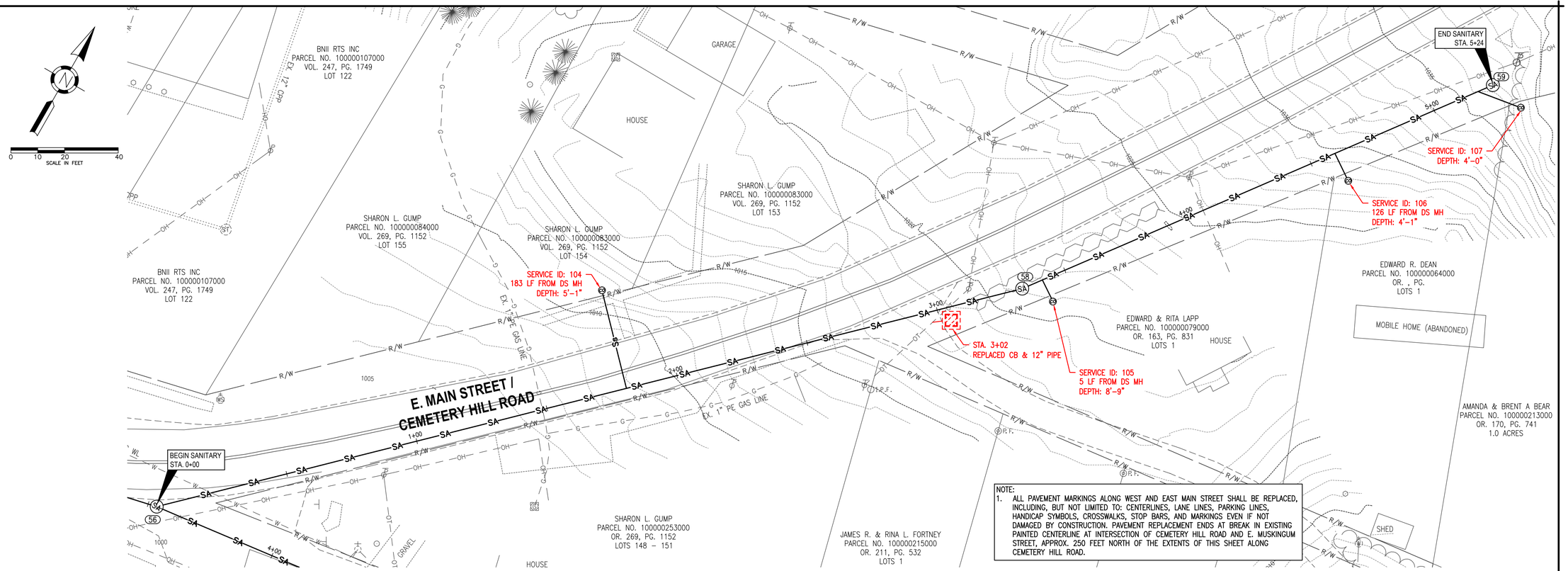
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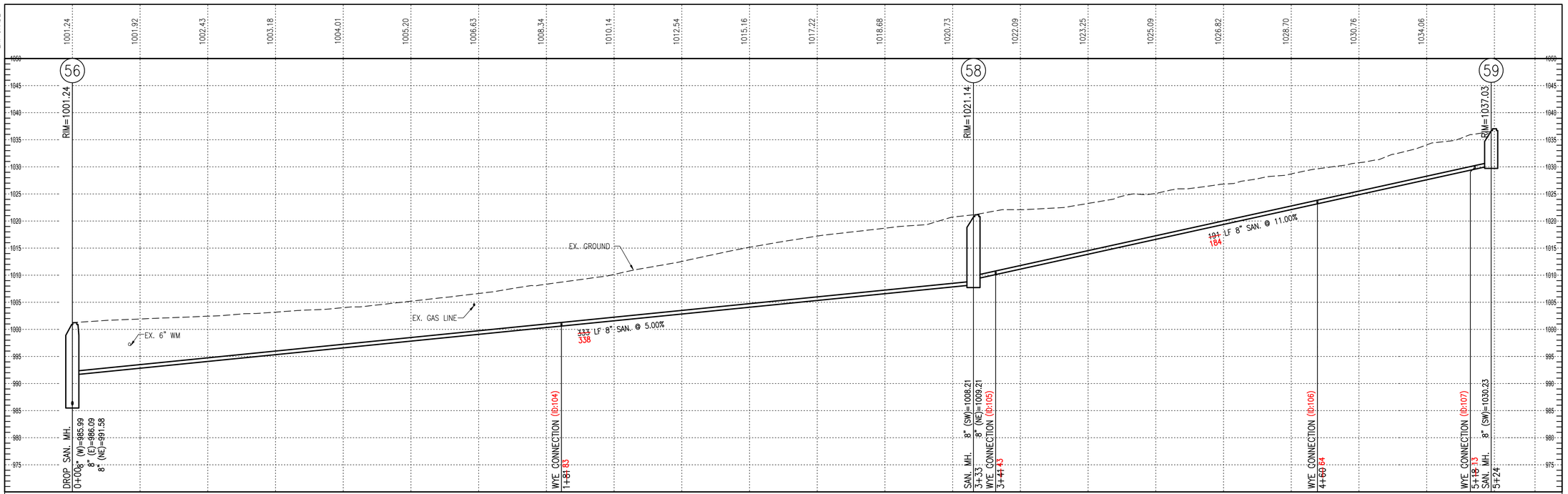
PIEDMONT ROAD
P&P

Sheet Number:

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REGISTERED
PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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	FNL 100%	06/04/21
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Project No.:	HCY005
Plot Date:	8/6/25
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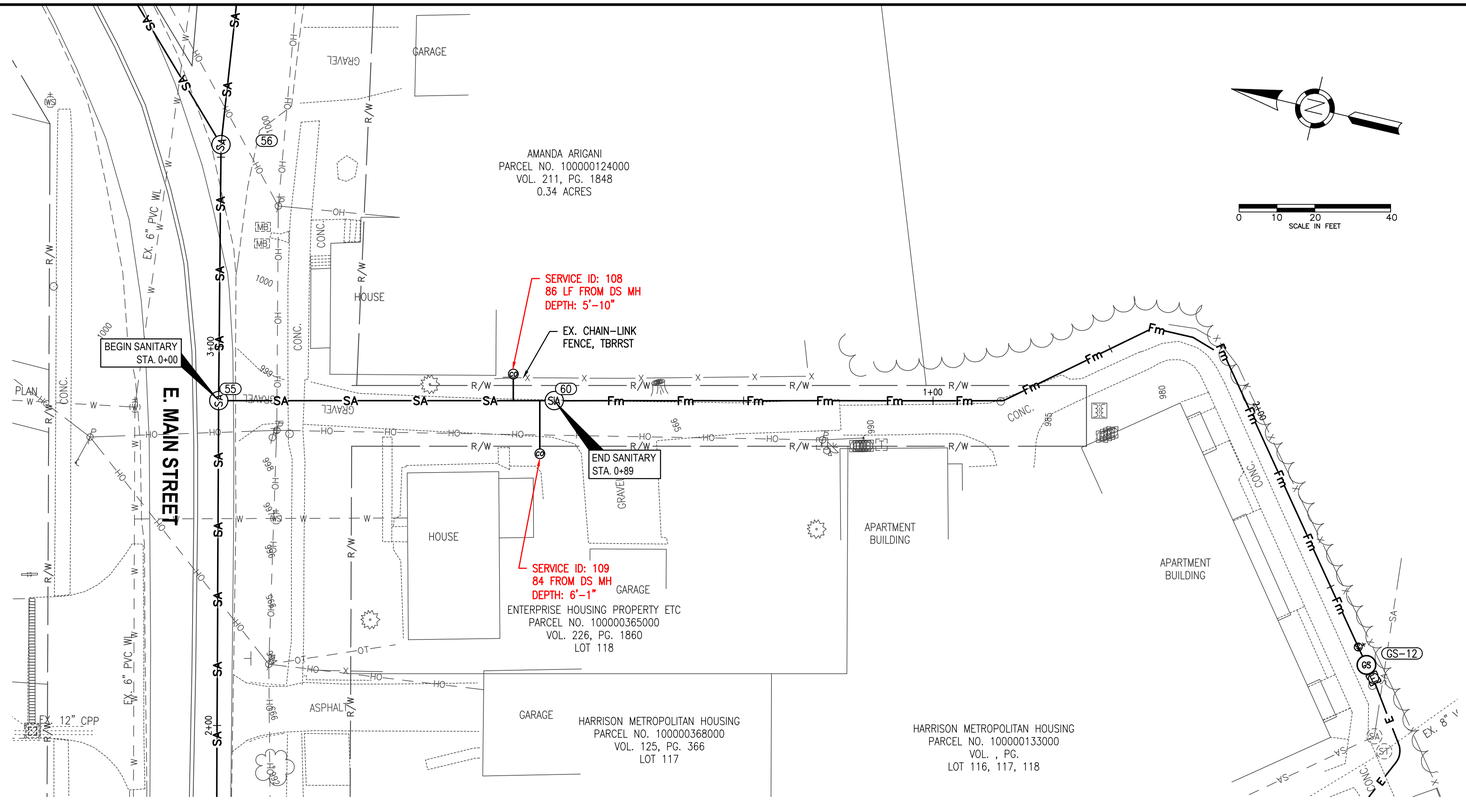
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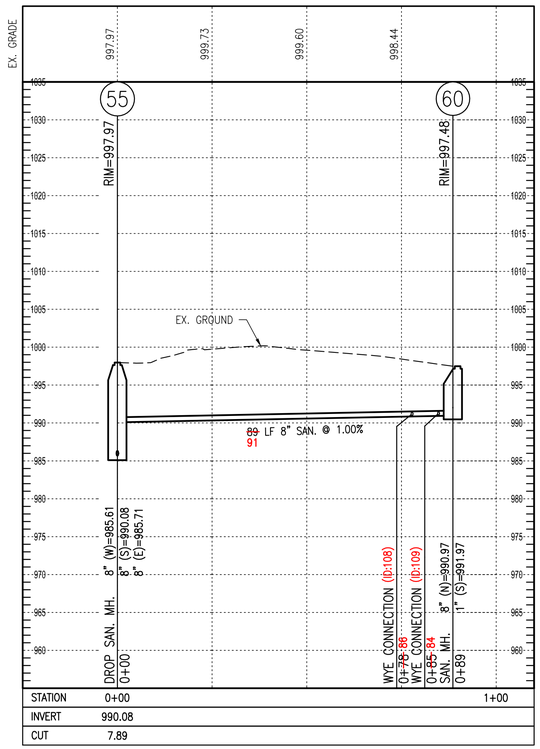
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Sheet Number:

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Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
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HARRISON COUNTY, OHIO

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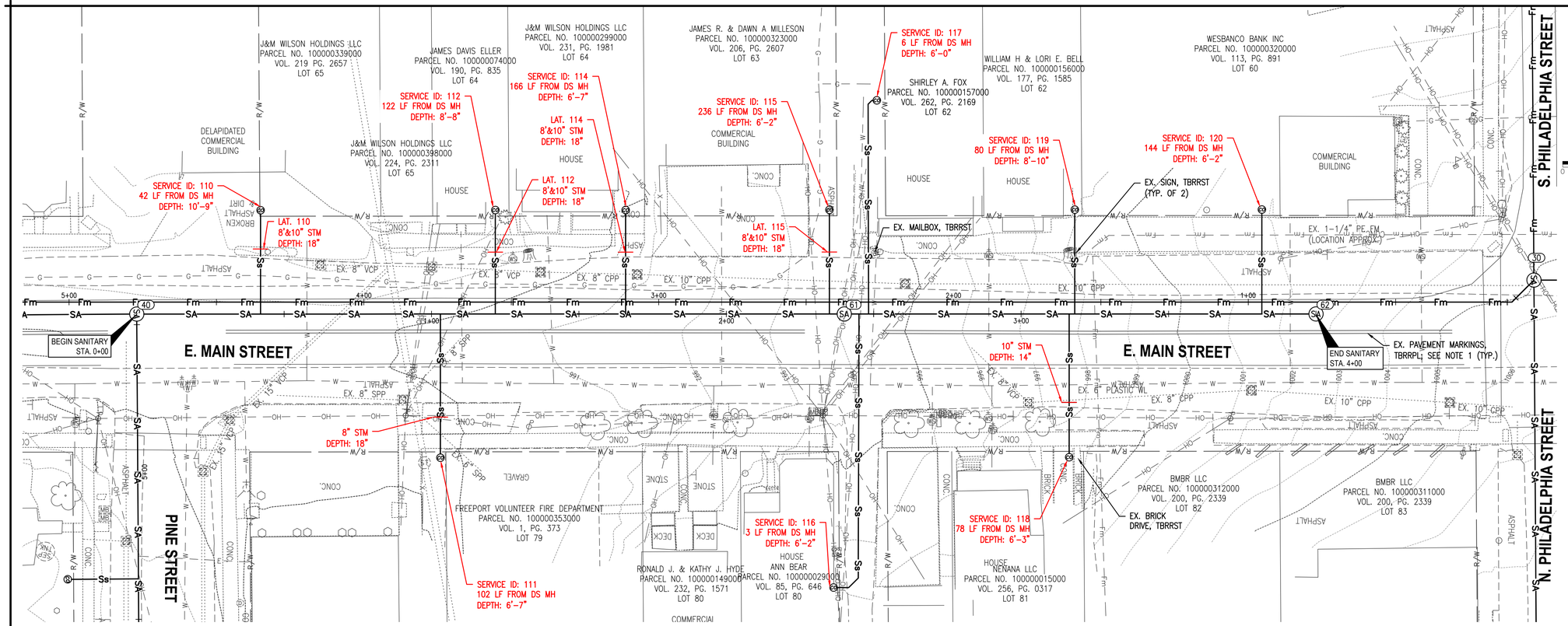
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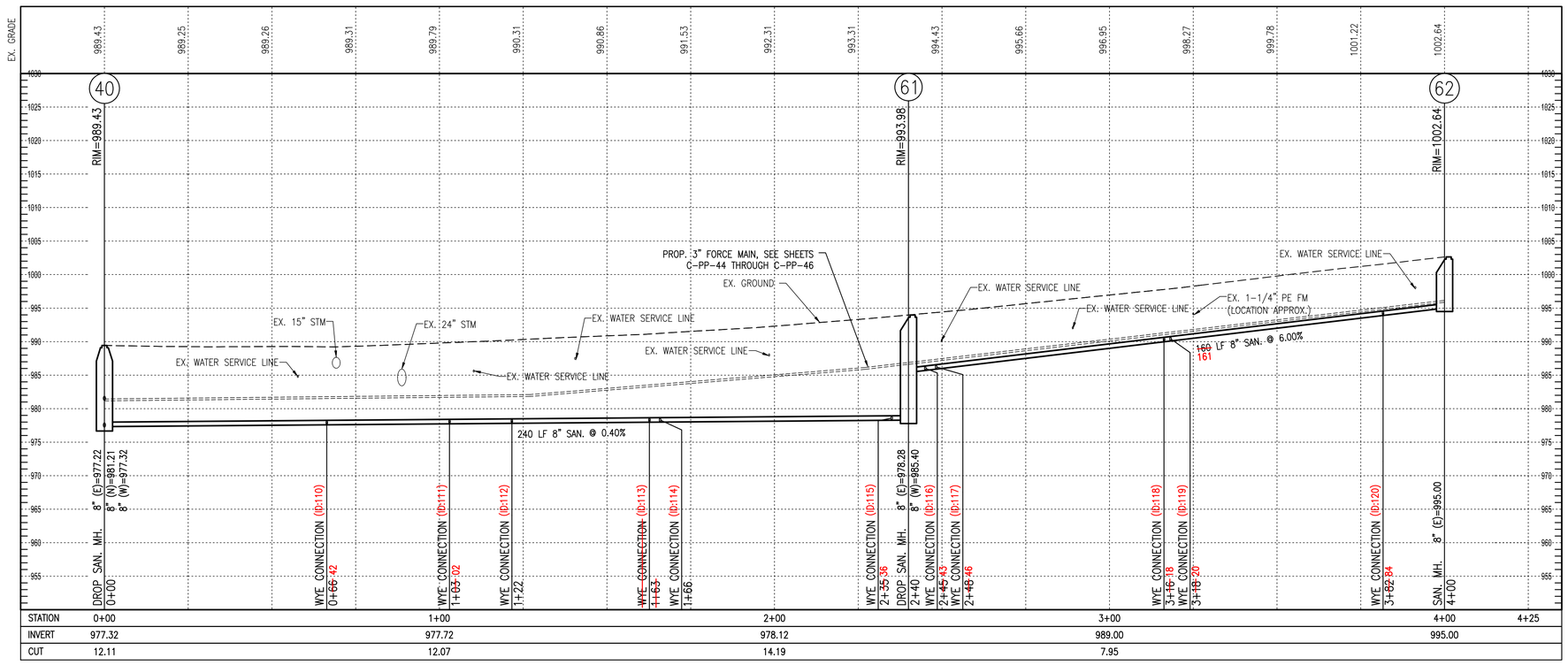
STEEL CREST APARTMENTS ALLEY P&P

Sheet Number:

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WATER & SEWER DISTRICT

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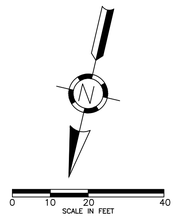
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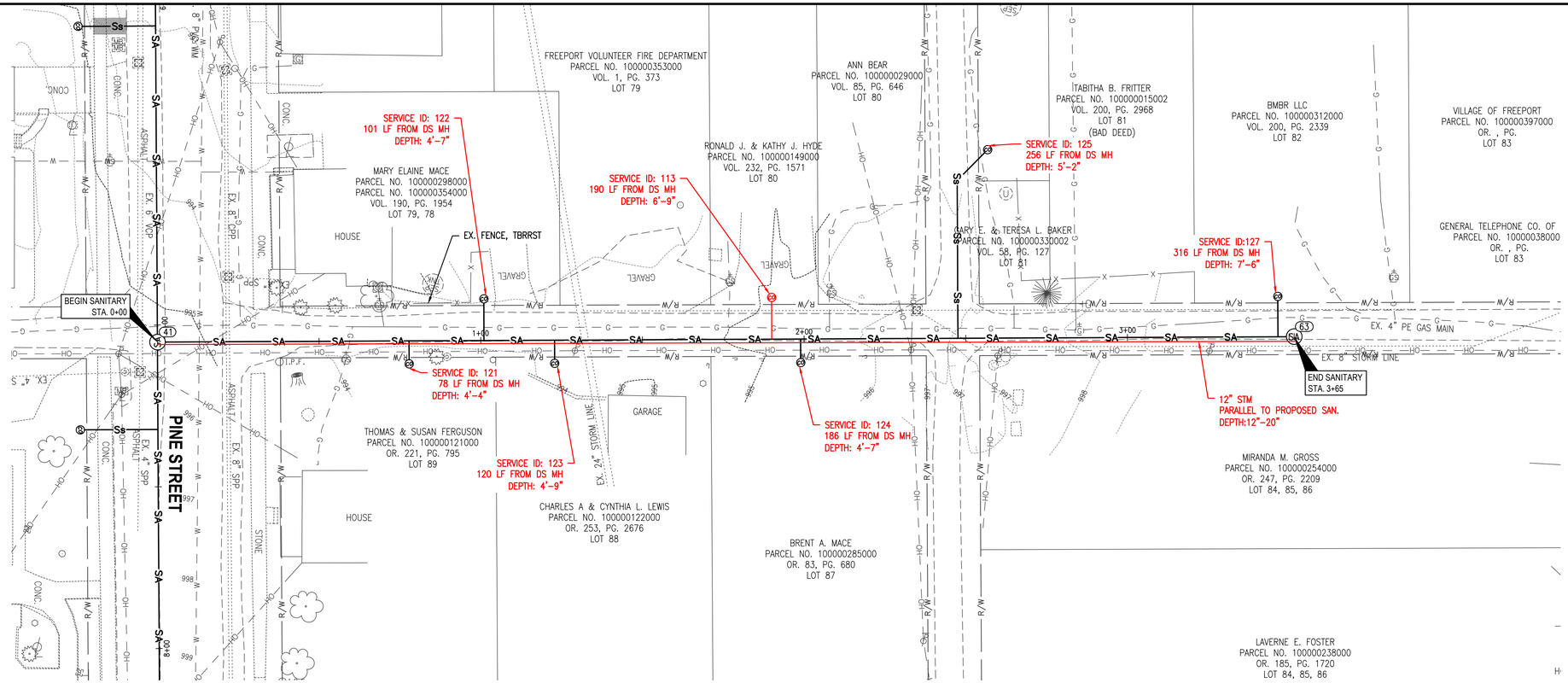
E. MAIN STREET
P&P

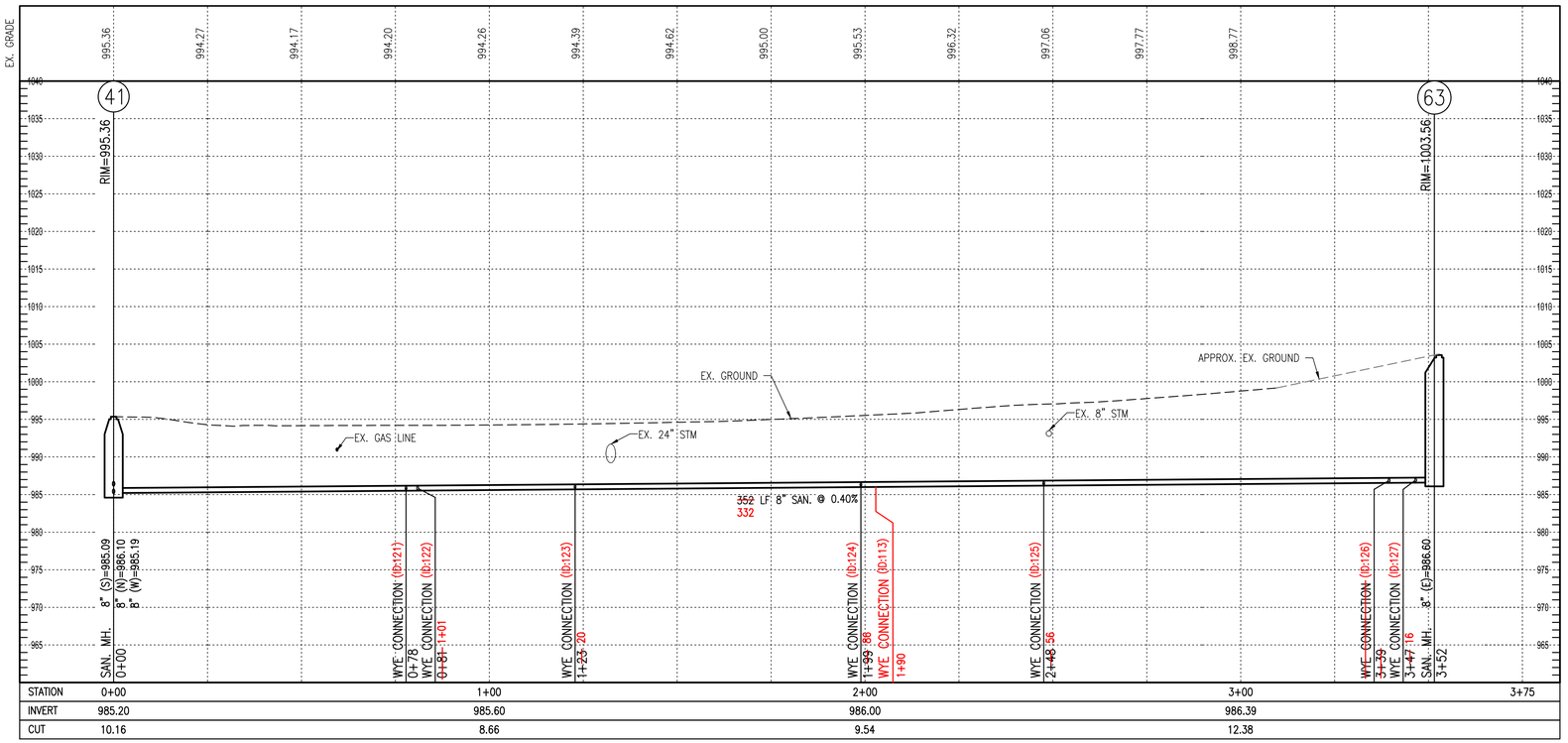
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HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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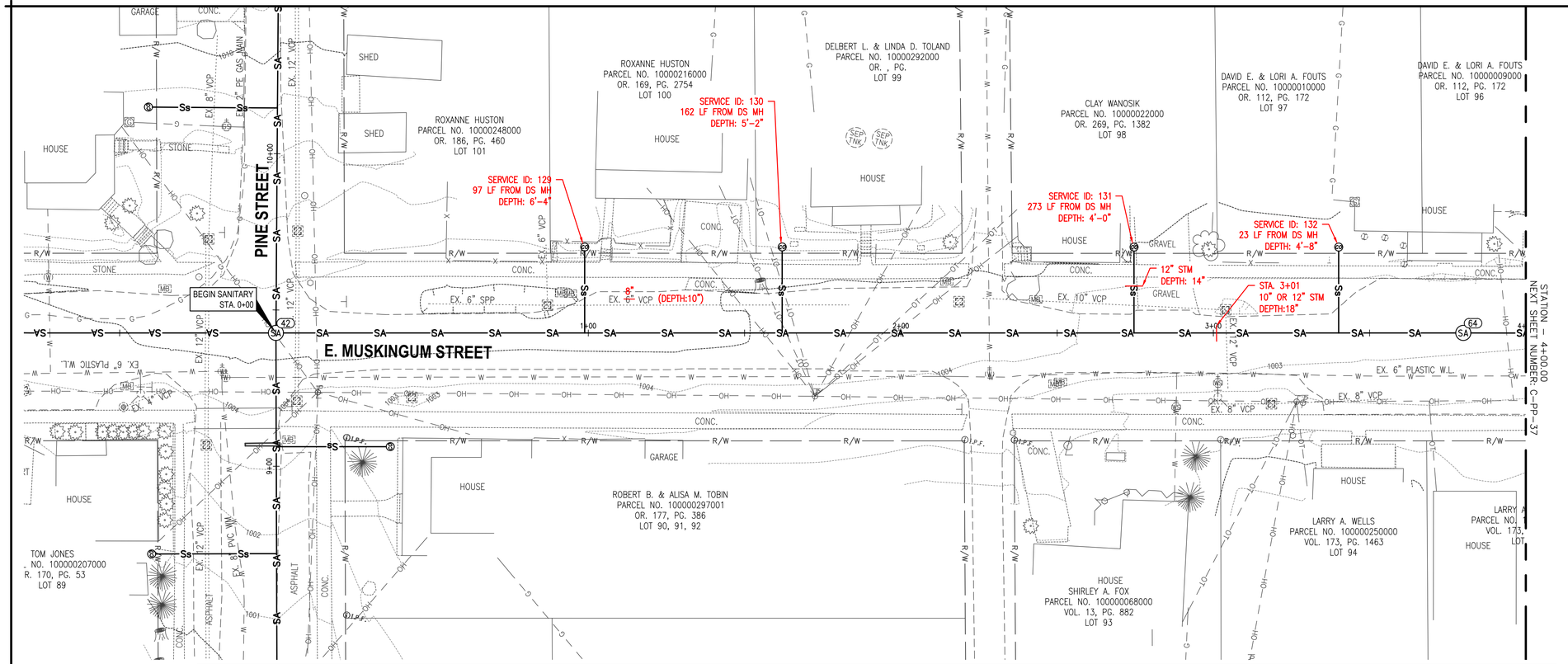
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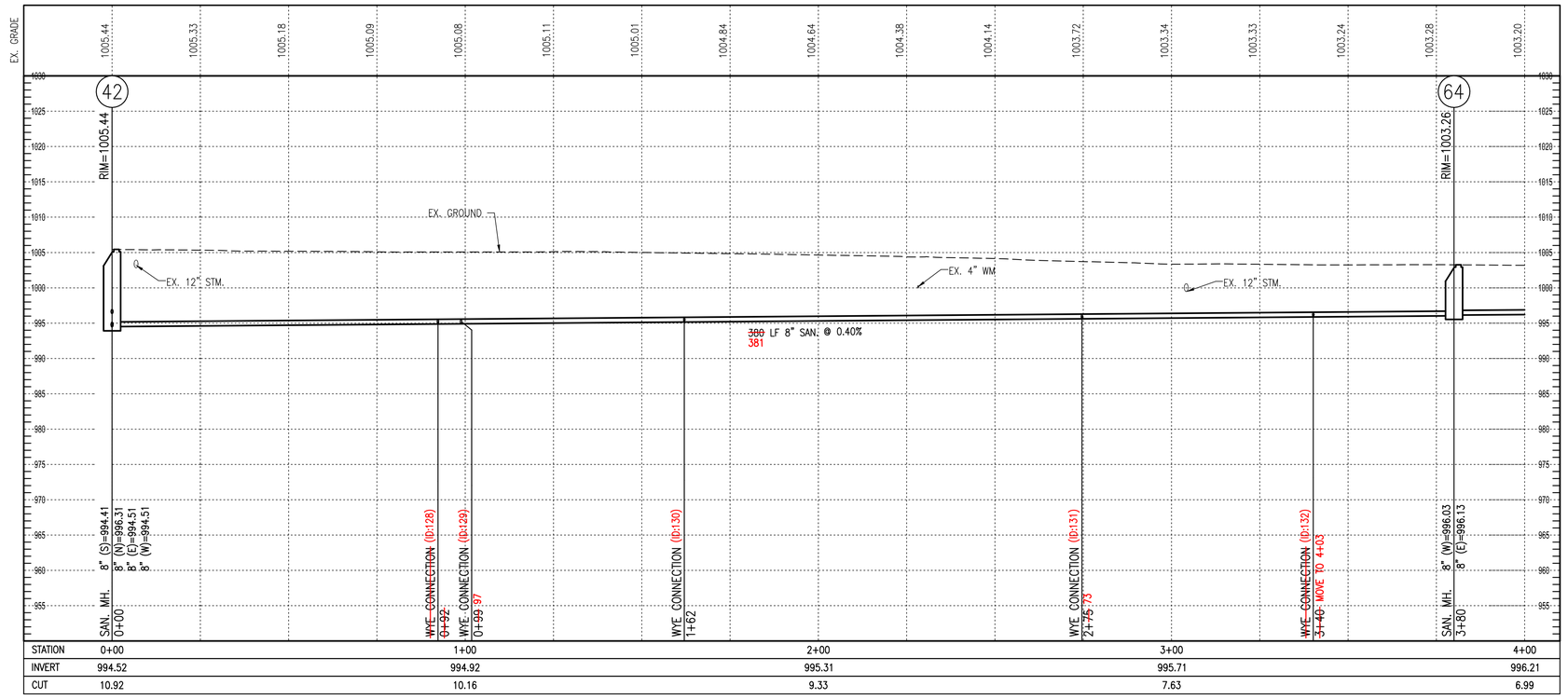
ALLEY OFF PINE STREET P&P

Sheet Number:

C-PP-35

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

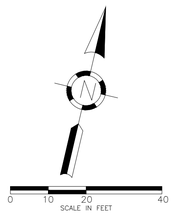
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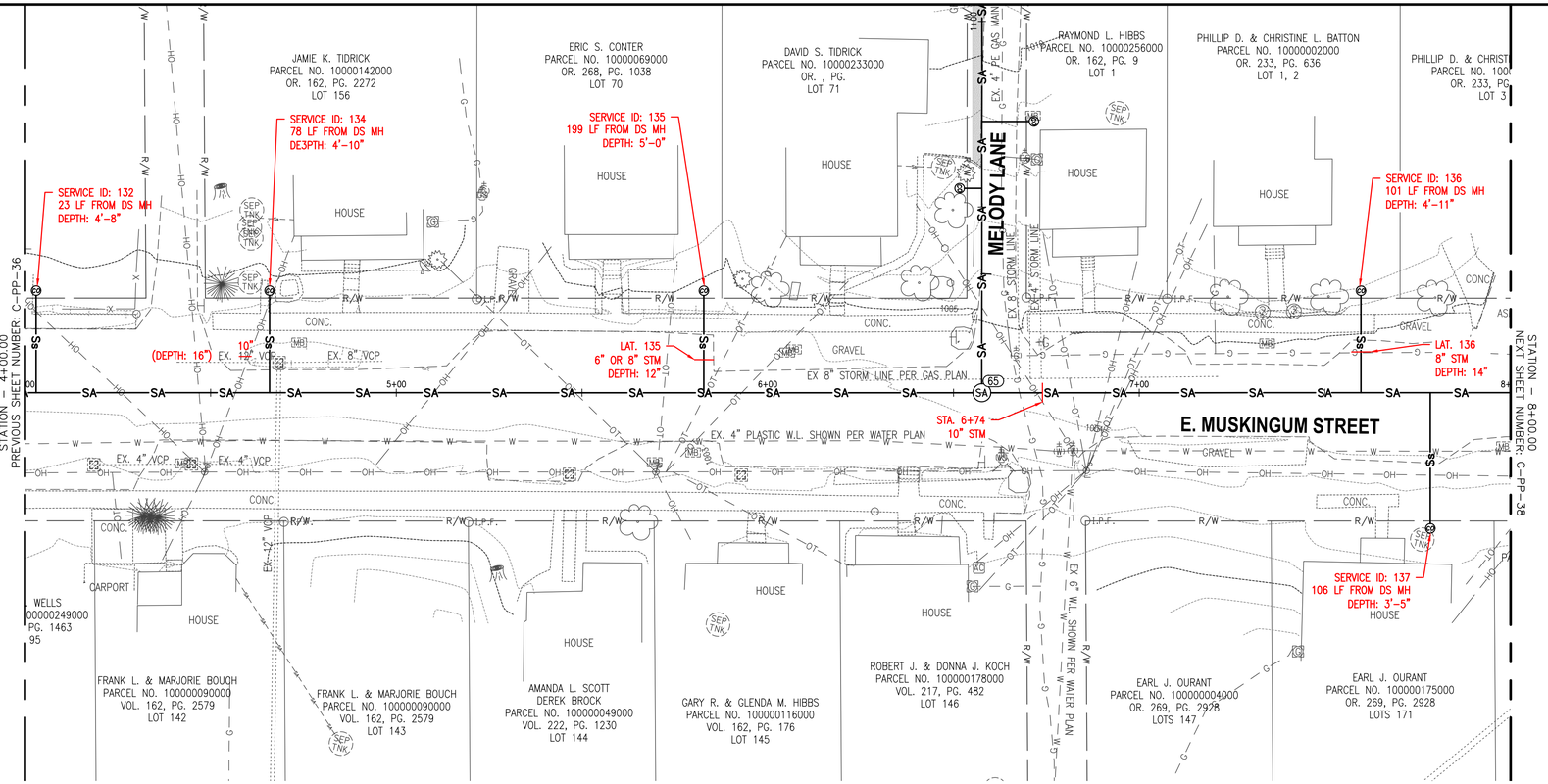
E. MUSKINGUM STREET P&P

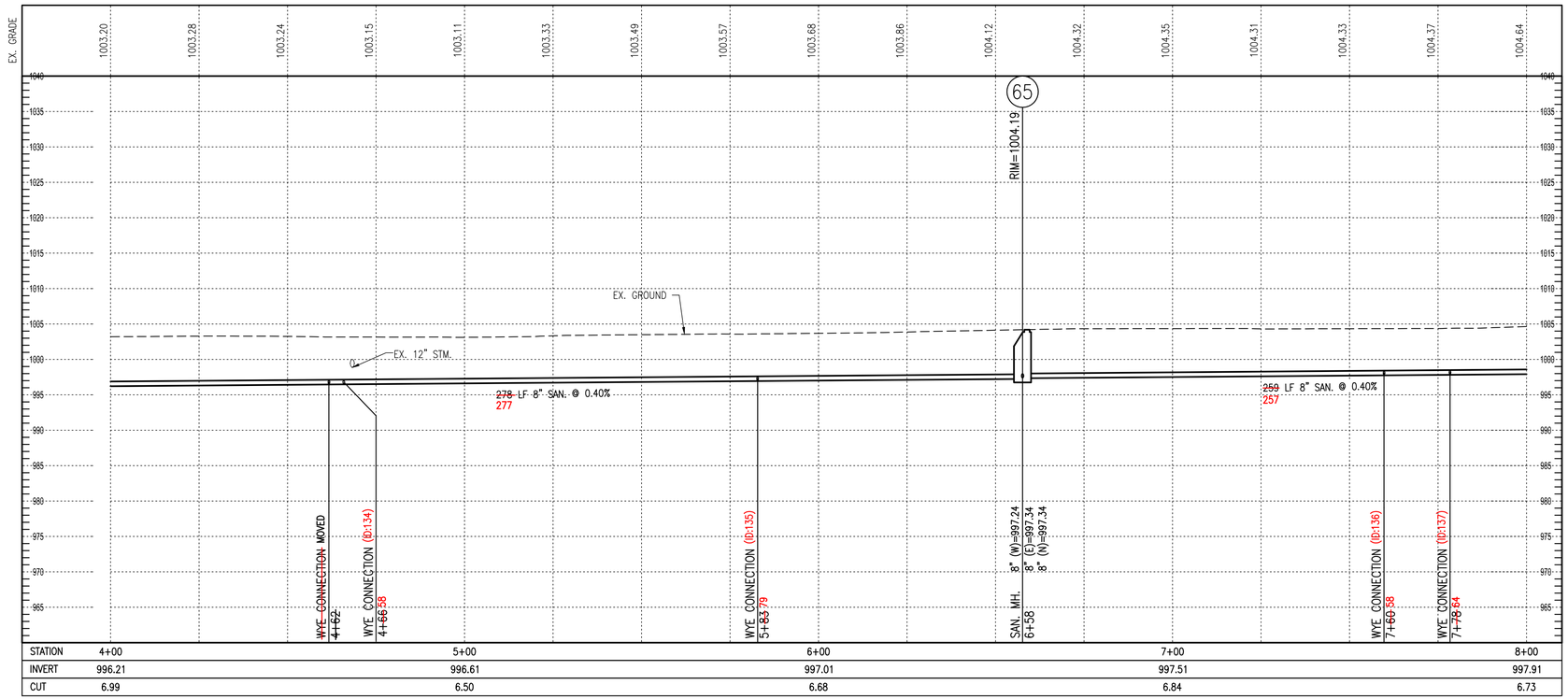
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C-PP-36

F:\Clients\Active\HCY\HCY005\Design\Drawing\Sheets\HCY005_SAN002.dwg, 36 E MUSKINGUM STREET P&P, JtwiPic, Aug 06, 2025 - 4:49pm







STATION	4+00	5+00	6+00	7+00	8+00
INVERT	996.21	996.61	997.01	997.51	997.91
CUT	6.99	6.50	6.68	6.84	6.73

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

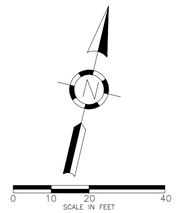
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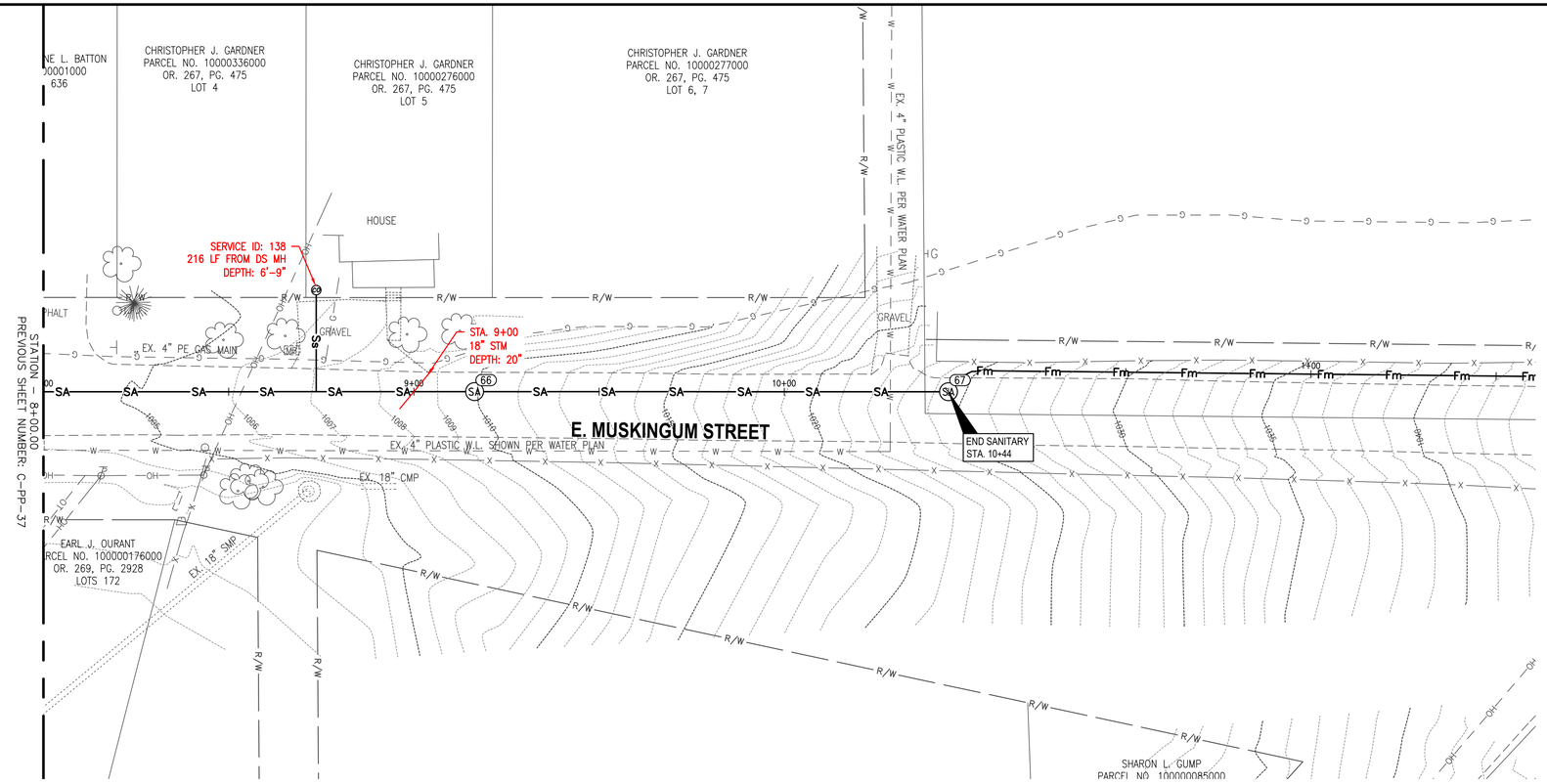
E. MUSKINGUM STREET P&P

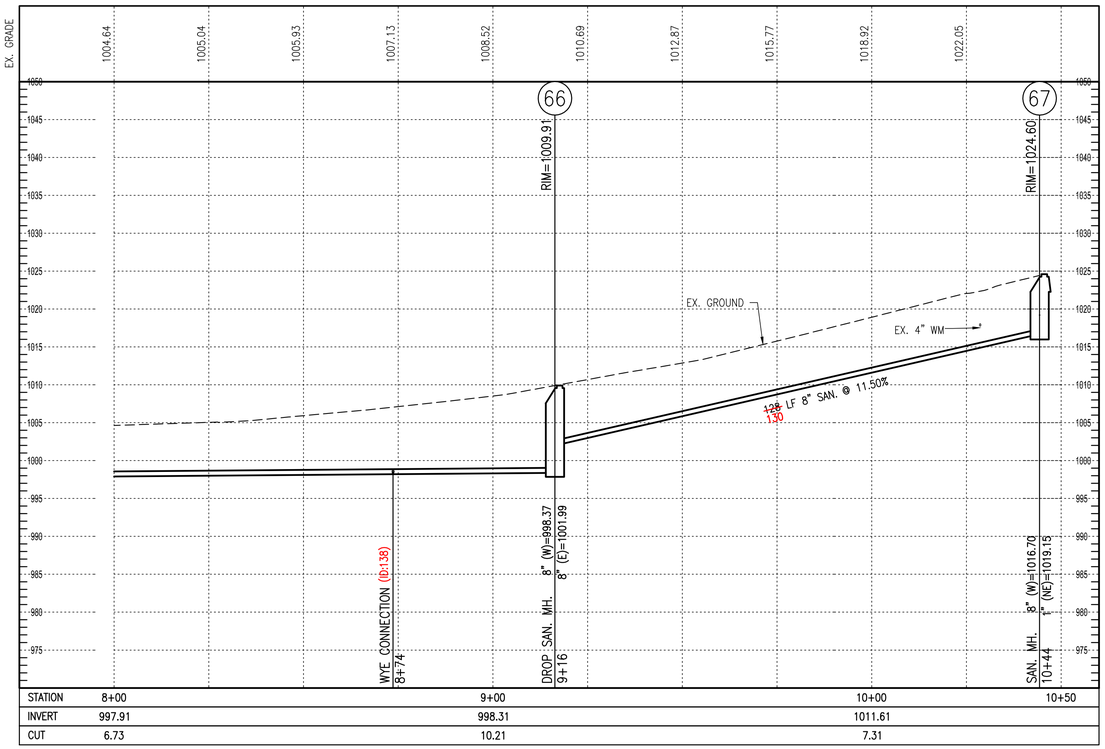
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C-PP-37

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

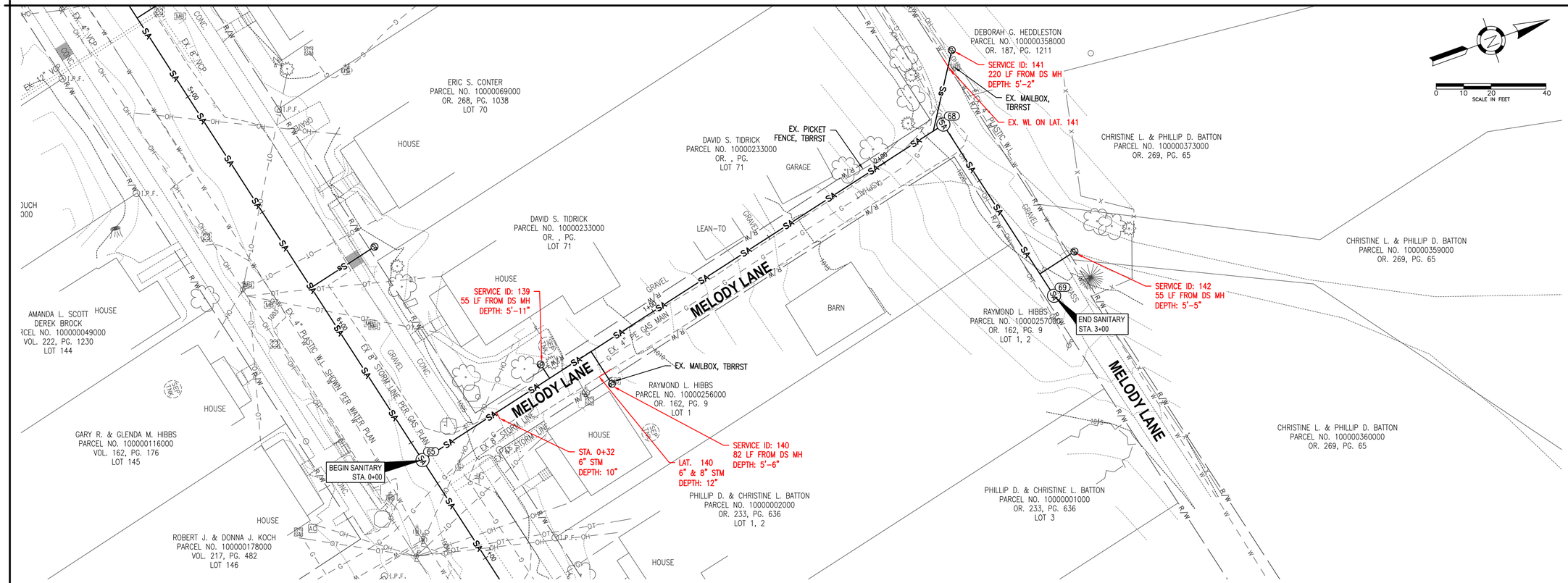
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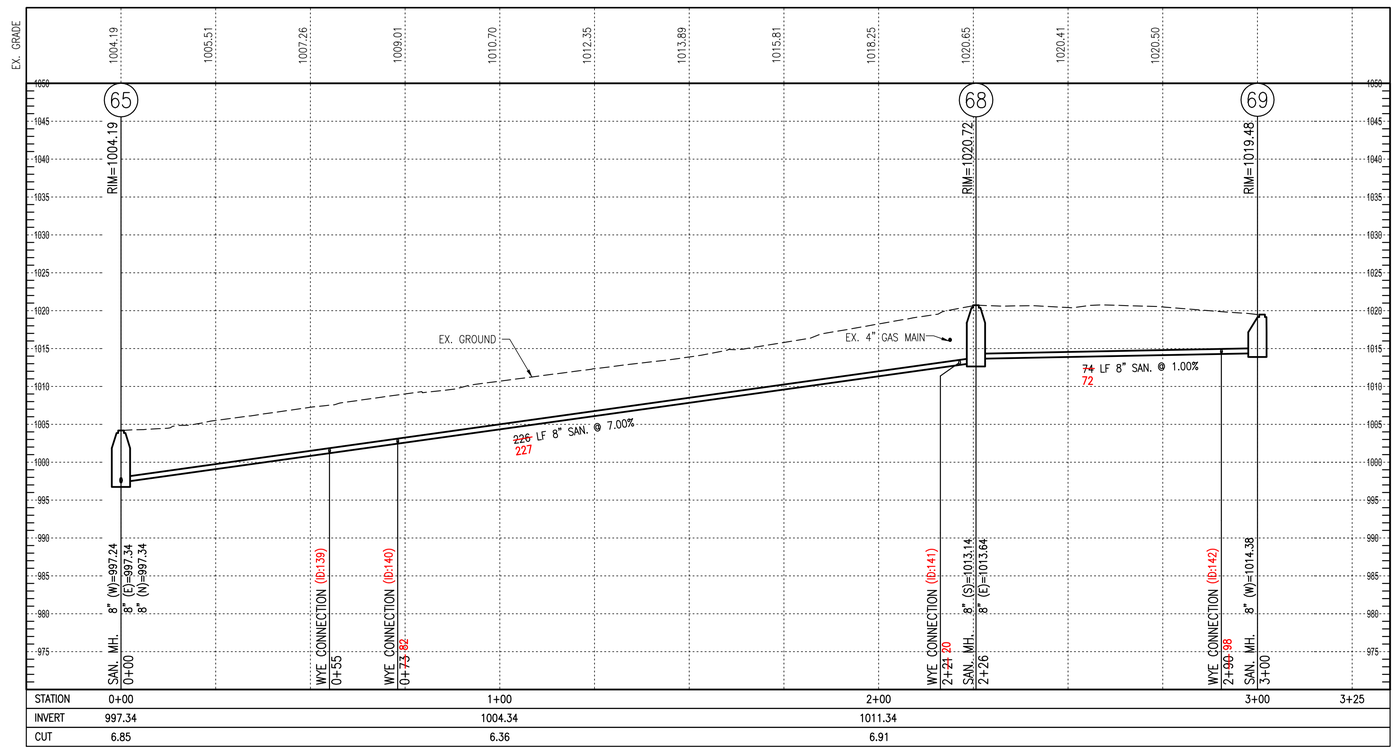
E. MUSKINGUM STREET P&P

Sheet Number:

C-PP-38

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INVERT	997.34	1004.34	1011.34		
CUT	6.85	6.36	6.91		

F:\Clients\Active\HCY\HCY005\Design\Drawing\Sheets\HCY005_SAN002.dwg, 39 MELODY LANE P&P, jhetjic, Aug 06, 2025 - 4:50pm

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STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

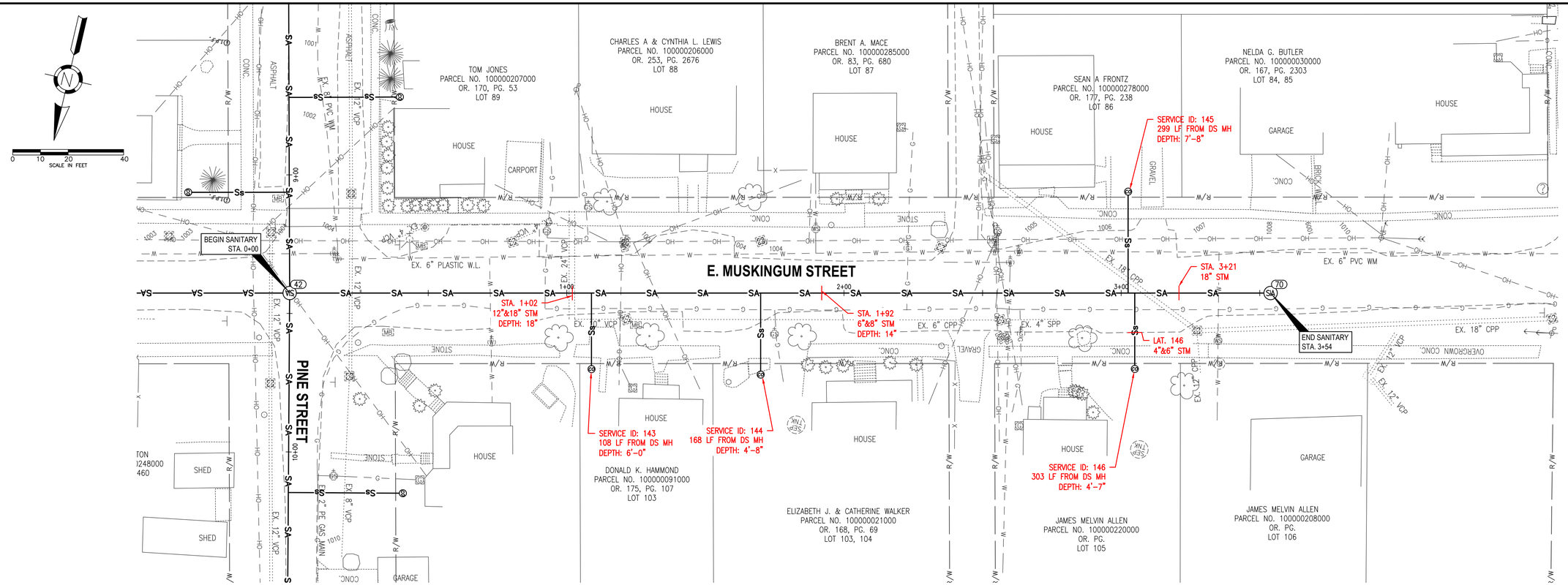
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Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

Sheet Title:

MELODY LANE P&P

Sheet Number:

C-PP-39



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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
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REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

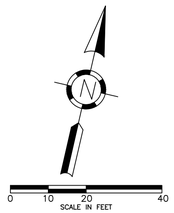
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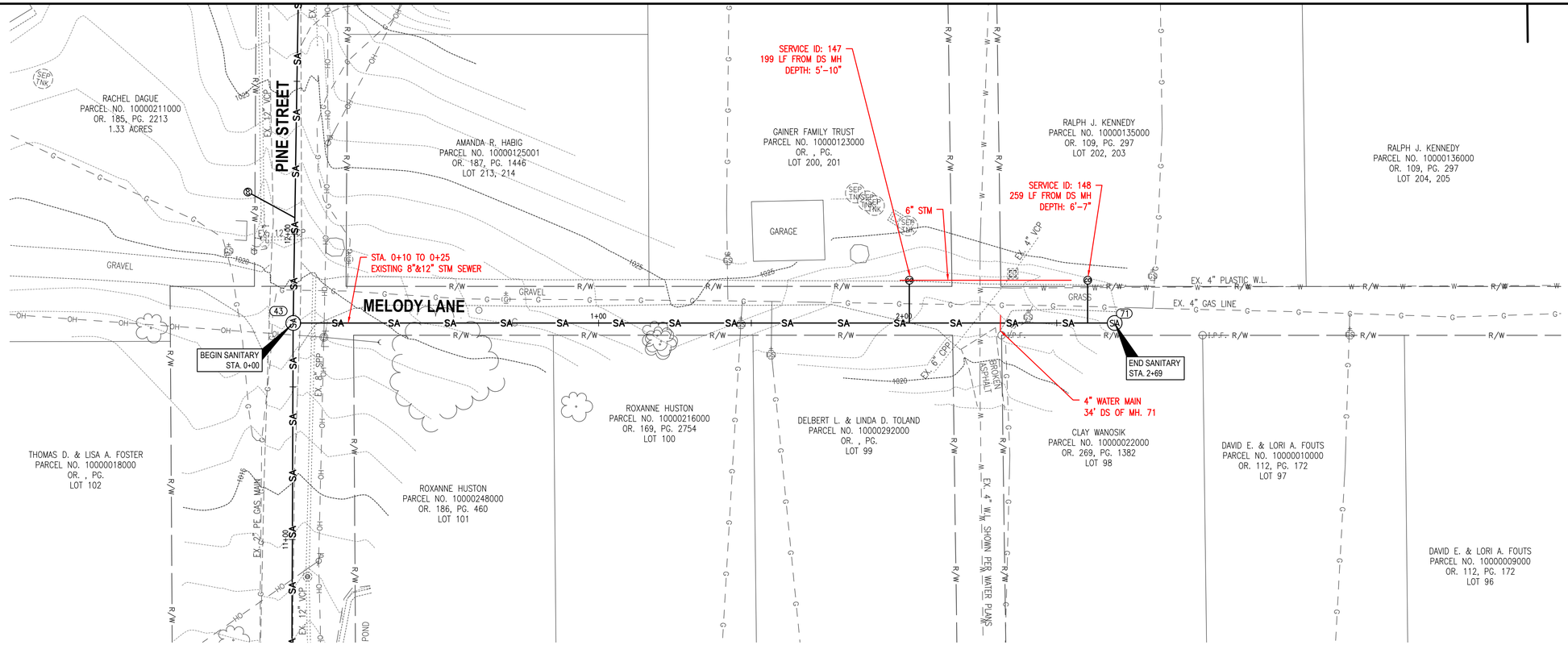
E. MUSKINGUM STREET (EASTBOUND) P&P

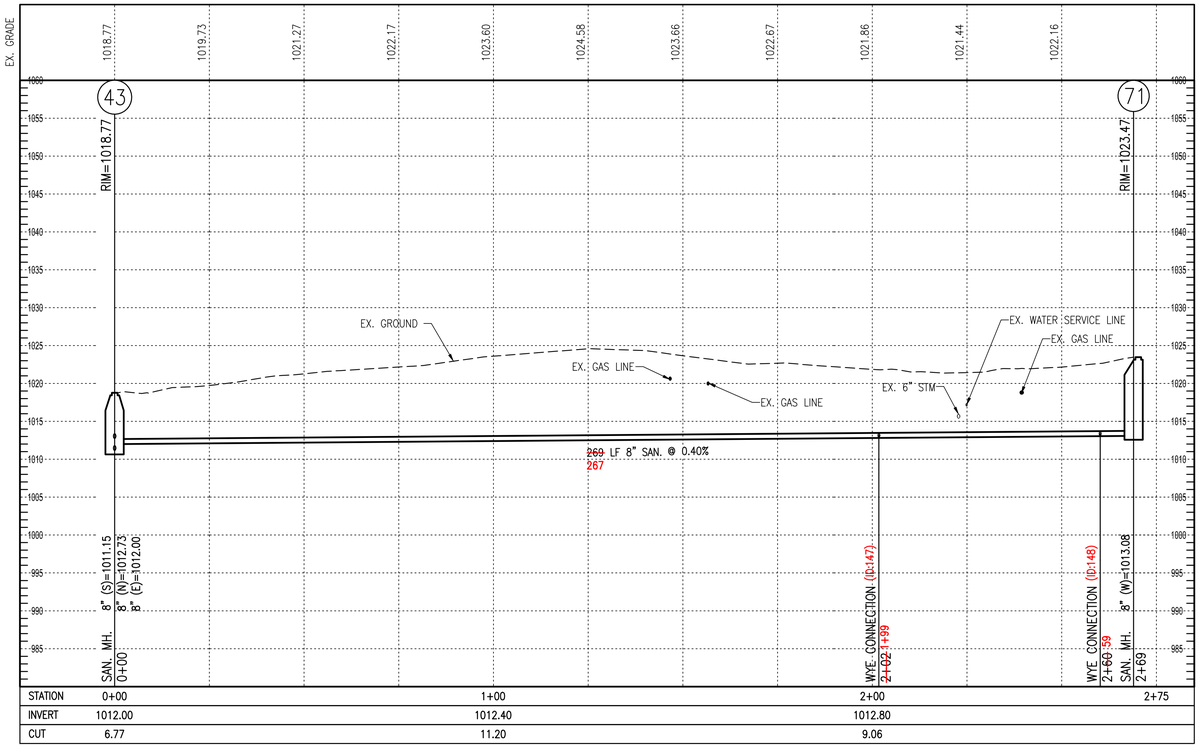
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STATION	0+00	1+00	2+00	2+75
INVERT	1012.00	1012.40	1012.80	
CUT	6.77	11.20	9.06	

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
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	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

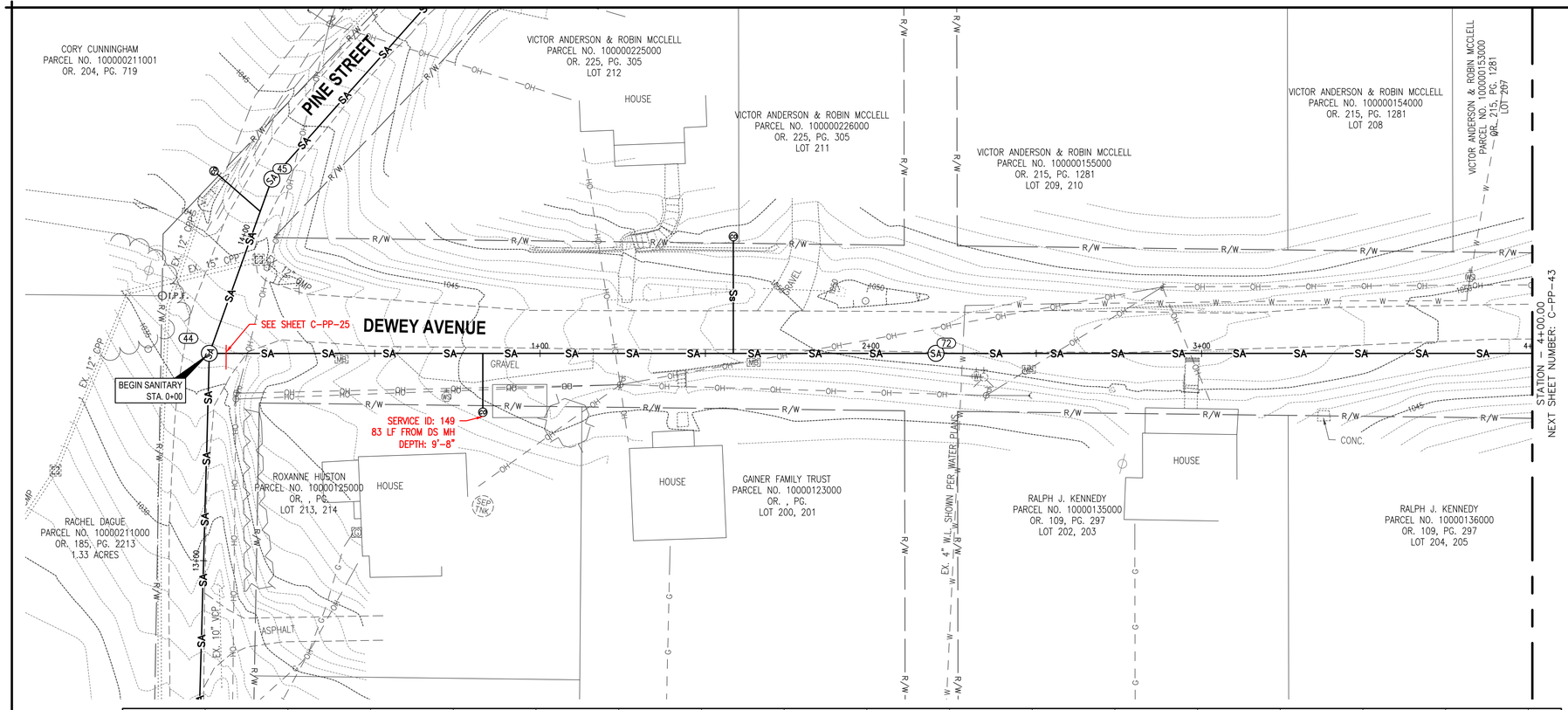
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MELODY LANE
(UNPAVED) P&P

Sheet Number:

C-PP-41

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Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

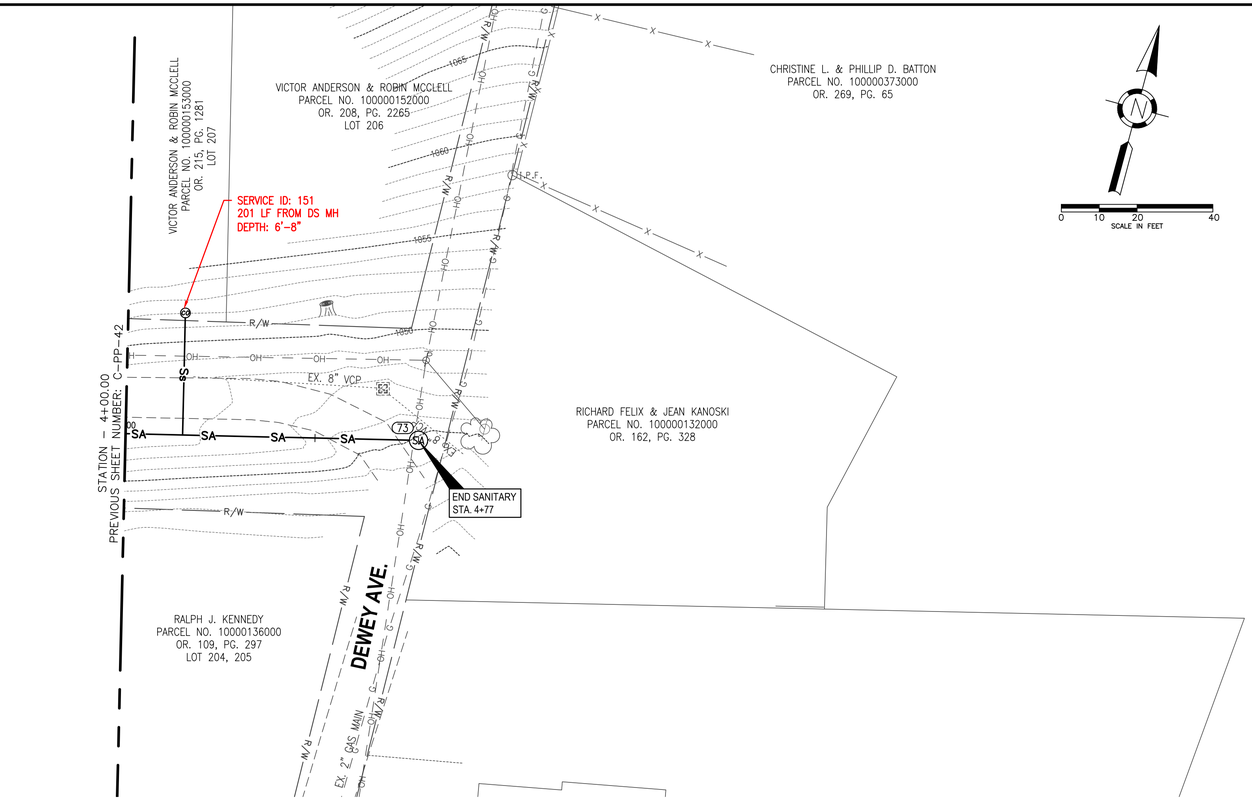
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Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
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Issue Date:	AUGUST 2025

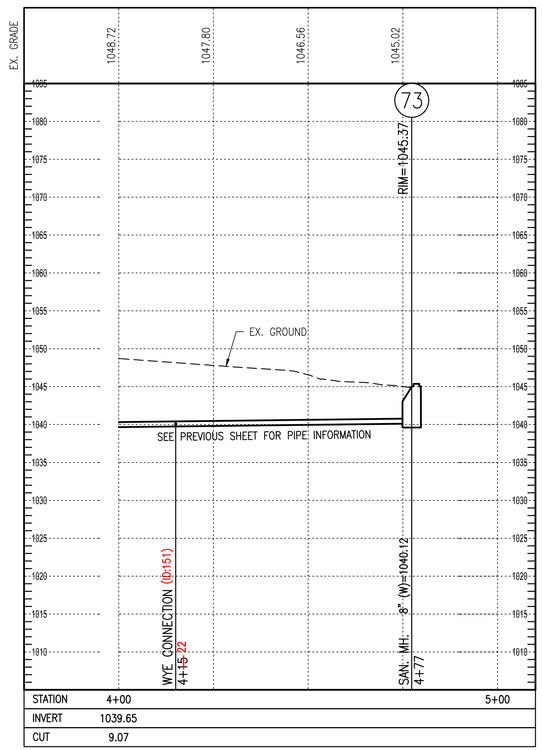
Sheet Title:

DEWEY AVENUE
P&P

Sheet Number:

C-PP-42





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Professional Seal:

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CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

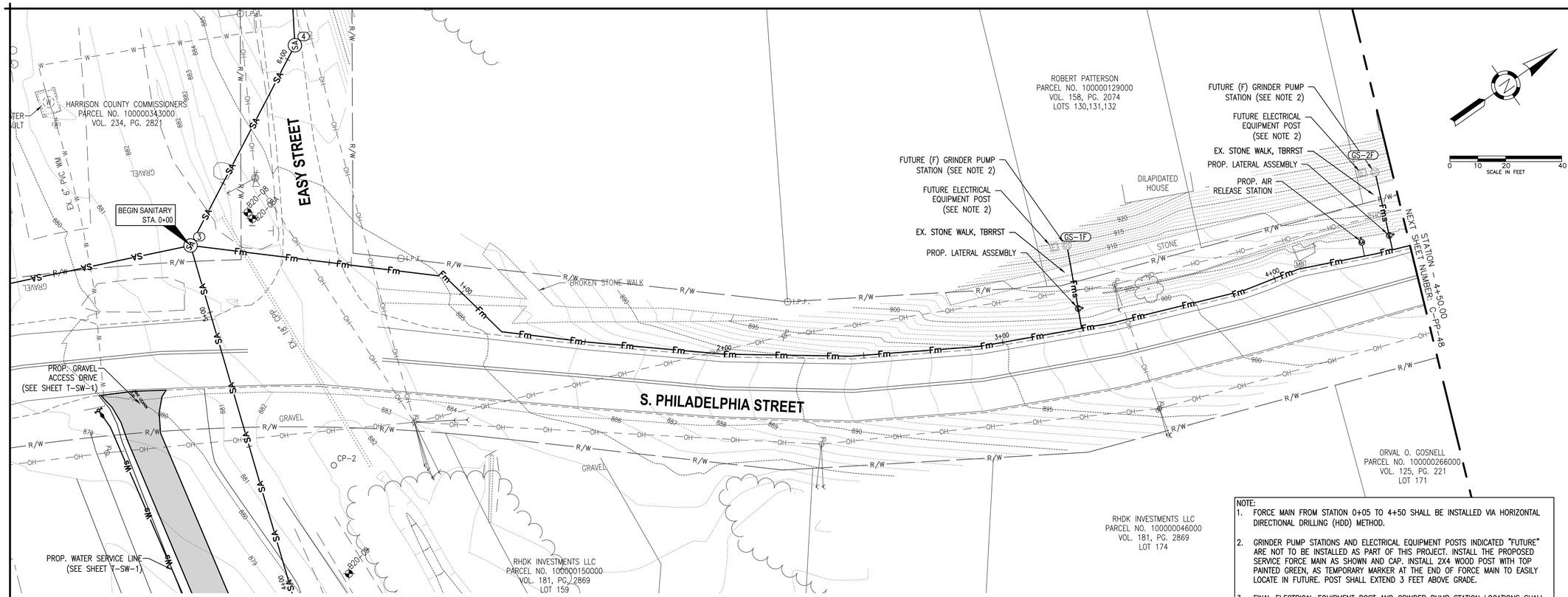
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DEWEY AVENUE
P&P

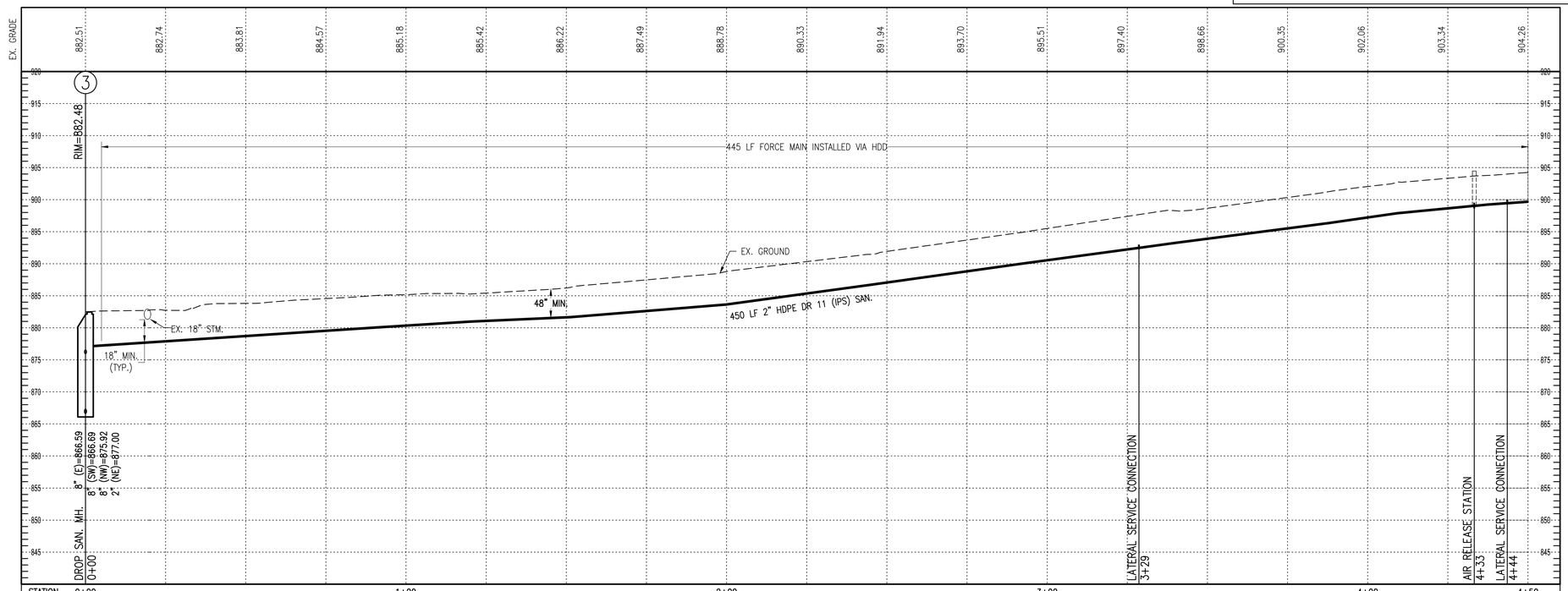
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C-PP-43

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NOTE:
1. FORCE MAIN FROM STATION 0+05 TO 4+50 SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.
2. GRINDER PUMP STATIONS AND ELECTRICAL EQUIPMENT POSTS INDICATED "FUTURE" ARE NOT TO BE INSTALLED AS PART OF THIS PROJECT. INSTALL THE PROPOSED SERVICE FORCE MAIN AS SHOWN AND CAP. INSTALL 2X4 WOOD POST WITH TOP PAINTED GREEN, AS TEMPORARY MARKER AT THE END OF FORCE MAIN TO EASILY LOCATE IN FUTURE. POST SHALL EXTEND 3 FEET ABOVE GRADE.
3. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.



STATION	0+00	1+00	2+00	3+00	4+00	4+50
INVERT	877.00	880.26	883.56	890.46	897.15	899.60
CUT	5.51	4.92	5.23	5.05	4.91	4.66

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

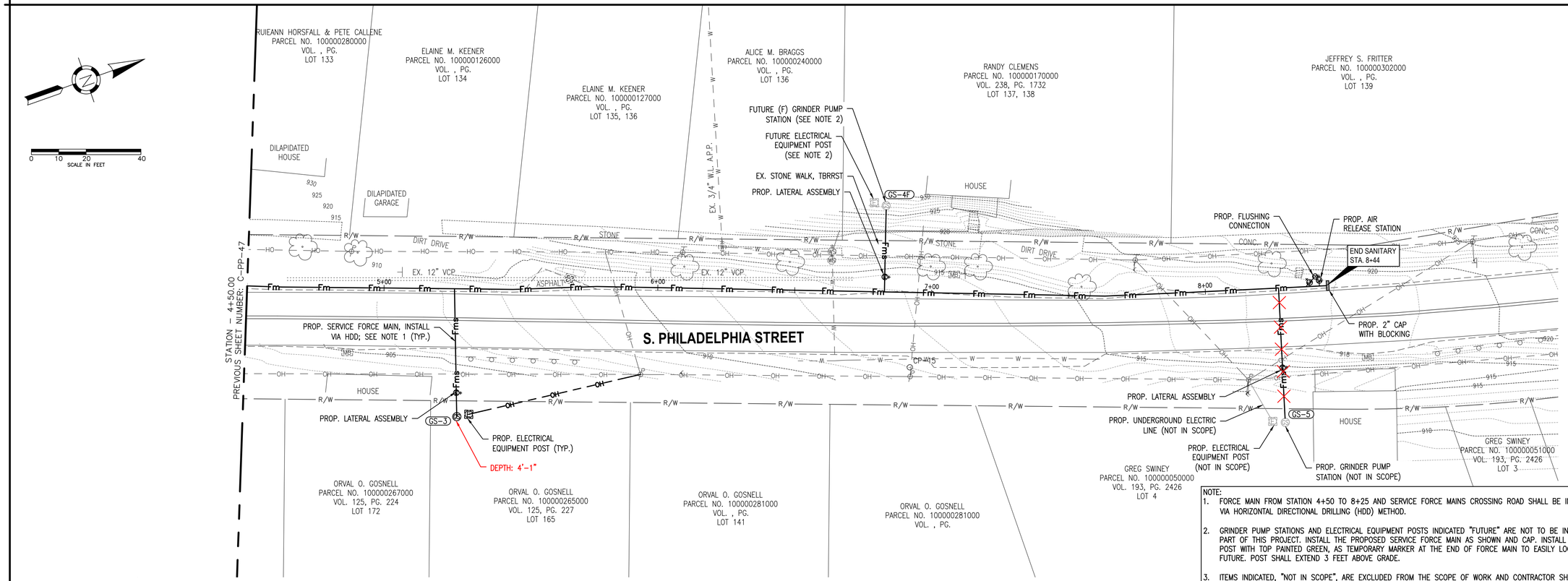
Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

Sheet Title:

S. PHILADELPHIA LOW-PRESSURE SEWER P&P

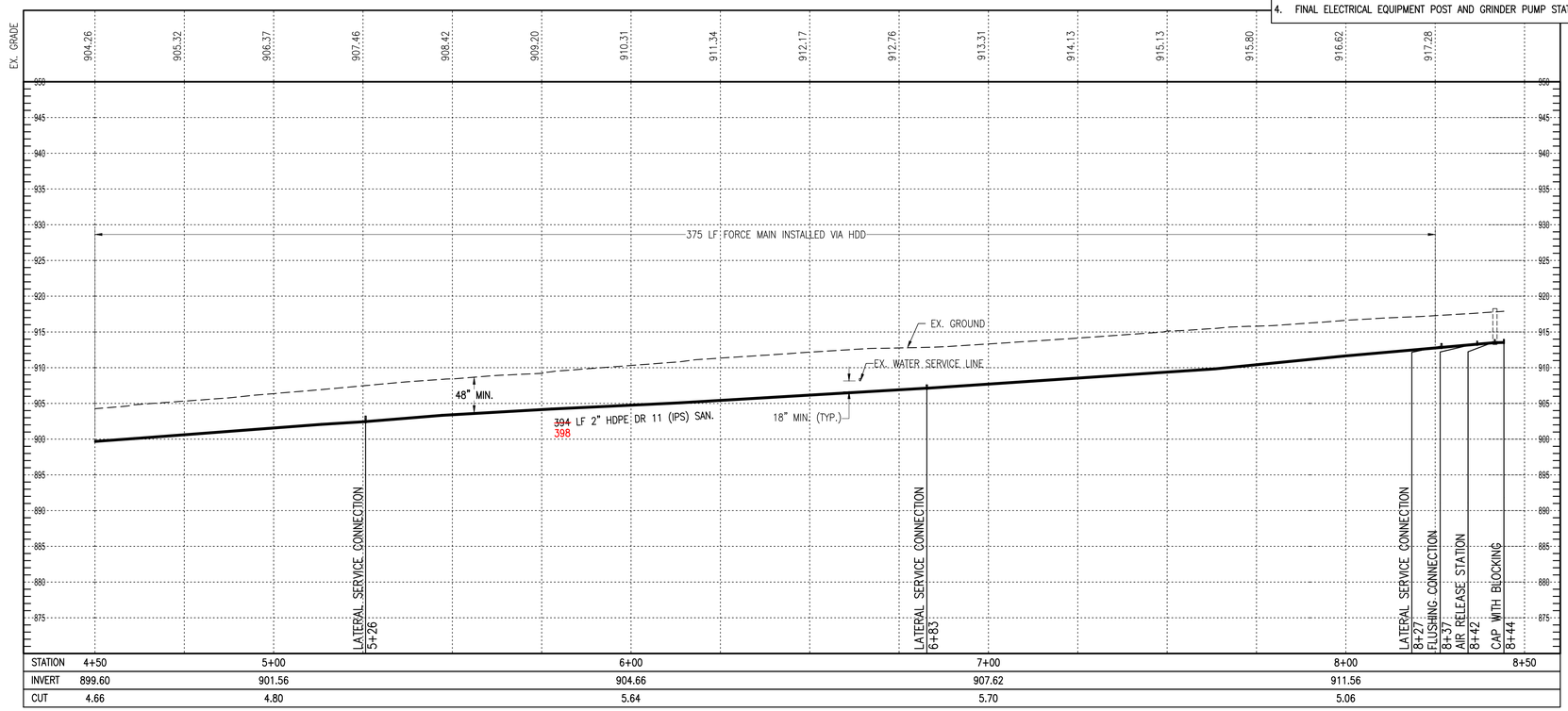
Sheet Number:

C-PP-47



NOTE:

1. FORCE MAIN FROM STATION 4+50 TO 8+25 AND SERVICE FORCE MAINS CROSSING ROAD SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.
2. GRINDER PUMP STATIONS AND ELECTRICAL EQUIPMENT POSTS INDICATED "FUTURE" ARE NOT TO BE INSTALLED AS PART OF THIS PROJECT. INSTALL THE PROPOSED SERVICE FORCE MAIN AS SHOWN AND CAP. INSTALL 2X4 WOOD POST WITH TOP PAINTED GREEN, AS TEMPORARY MARKER AT THE END OF FORCE MAIN TO EASILY LOCATE IN FUTURE. POST SHALL EXTEND 3 FEET ABOVE GRADE.
3. ITEMS INDICATED, "NOT IN SCOPE", ARE EXCLUDED FROM THE SCOPE OF WORK AND CONTRACTOR SHALL NOT COMPLETE WORK ON RESPECTIVE PRIVATE PROPERTY UNLESS OTHERWISE DIRECTED BY OWNER AND ENGINEER.
4. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.



STATION	4+50	5+00	6+00	7+00	8+00	8+50
INVERT	899.60	901.56	904.66	907.62	911.56	
CUT	4.66	4.80	5.64	5.70	5.06	

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

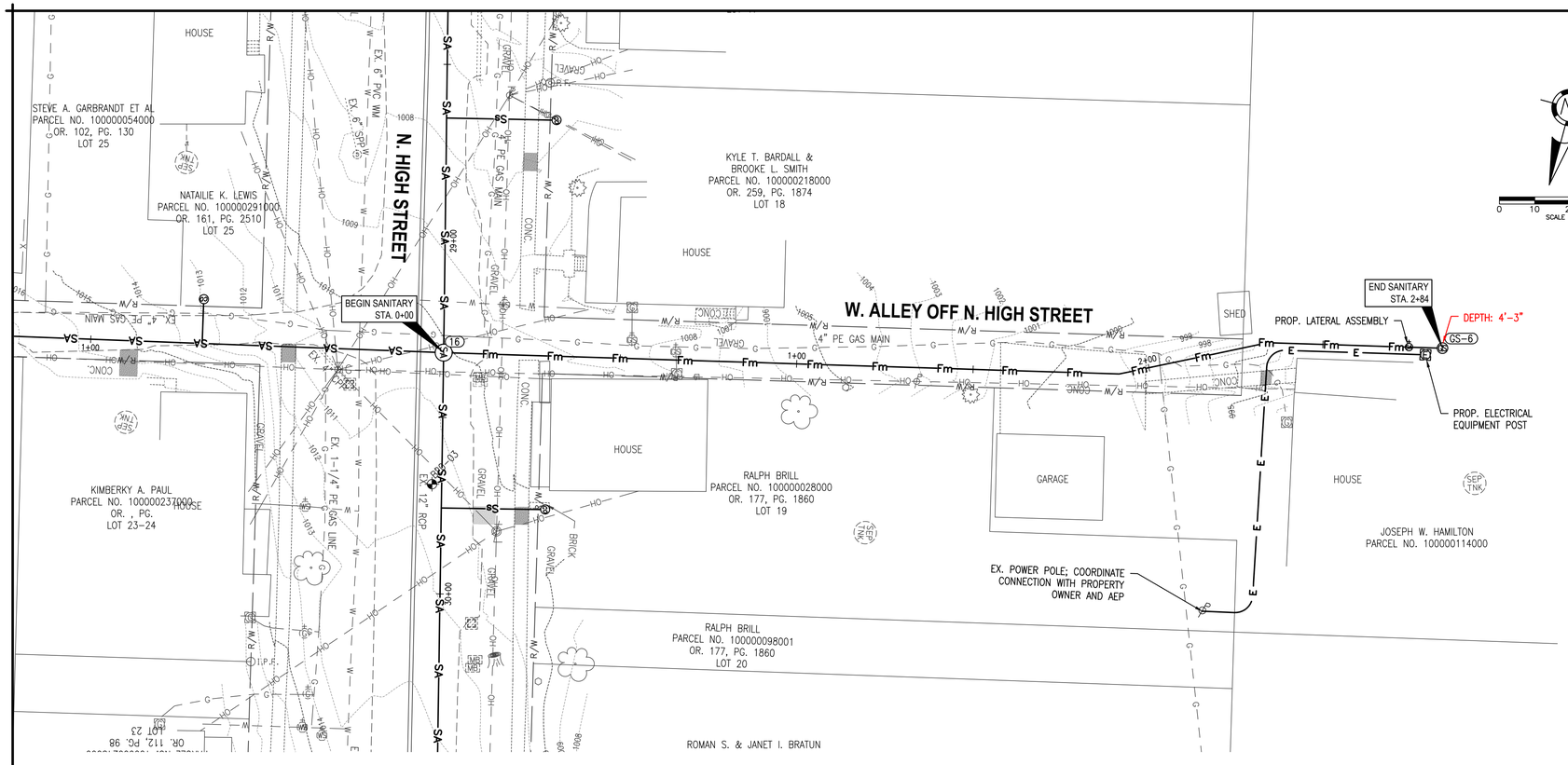
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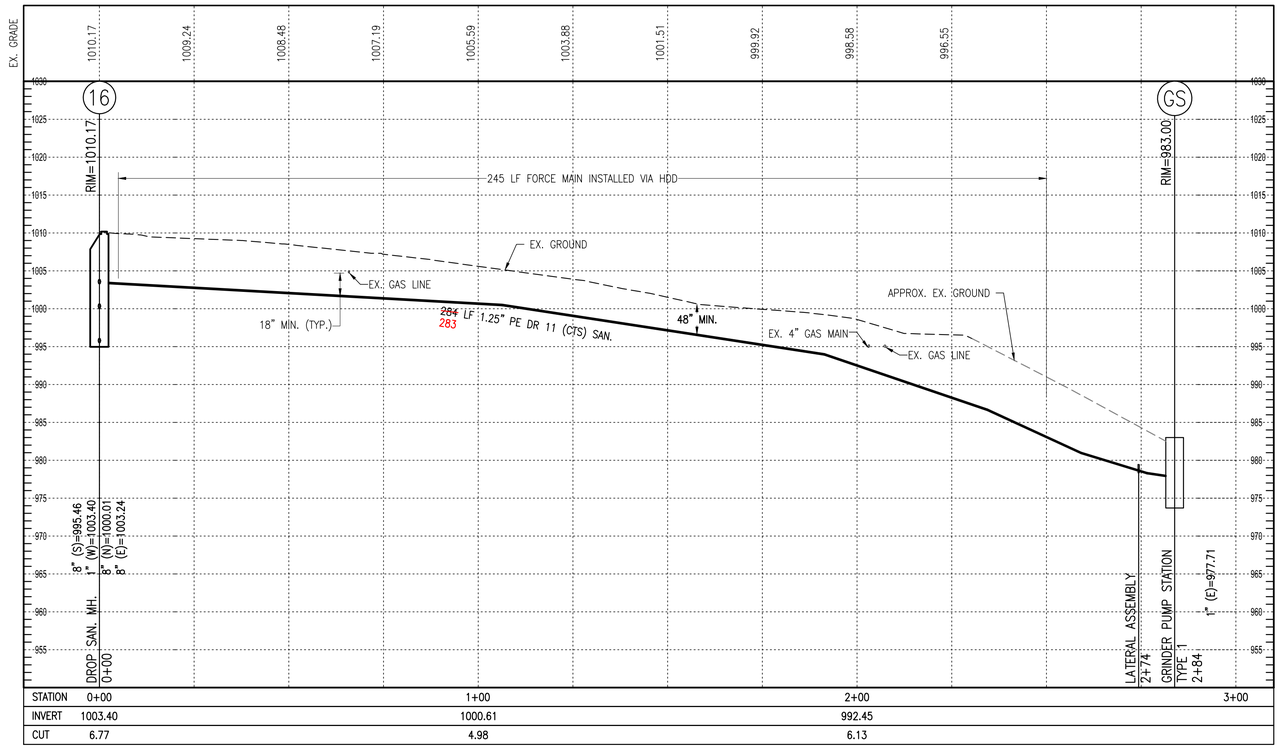
S. PHILADELPHIA LOW-PRESSURE SEWER P&P

Sheet Number:

C-PP-48

F:\Clients\Active\HCY\HCY005\Design\Drawing\Sheets\HCY005_SAN001.dwg, 48, jhellic, Aug 06, 2025 - 4:51pm





NOTE:
1. FORCE MAIN FROM STATION 0+05 TO 2+50 SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.
2. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.

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E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

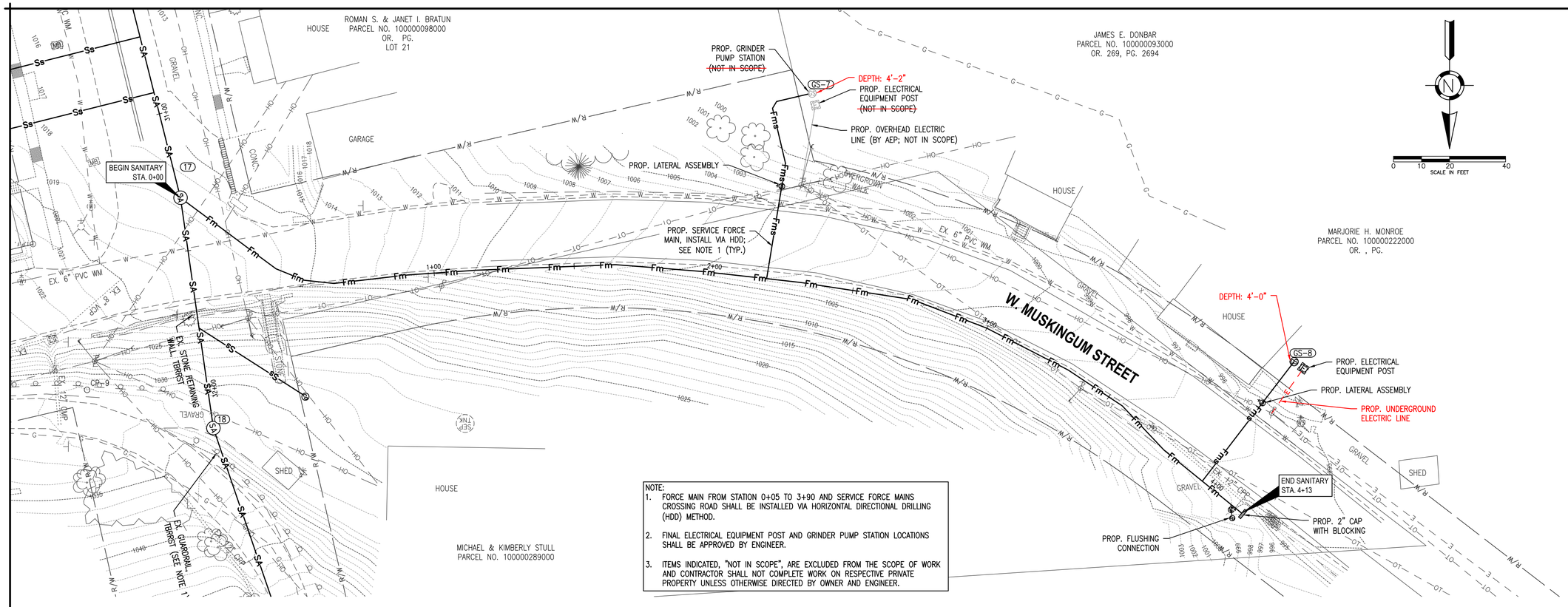
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W. ALLEY OFF N. HIGH STREET LOW-PRESSURE SEWER P&P

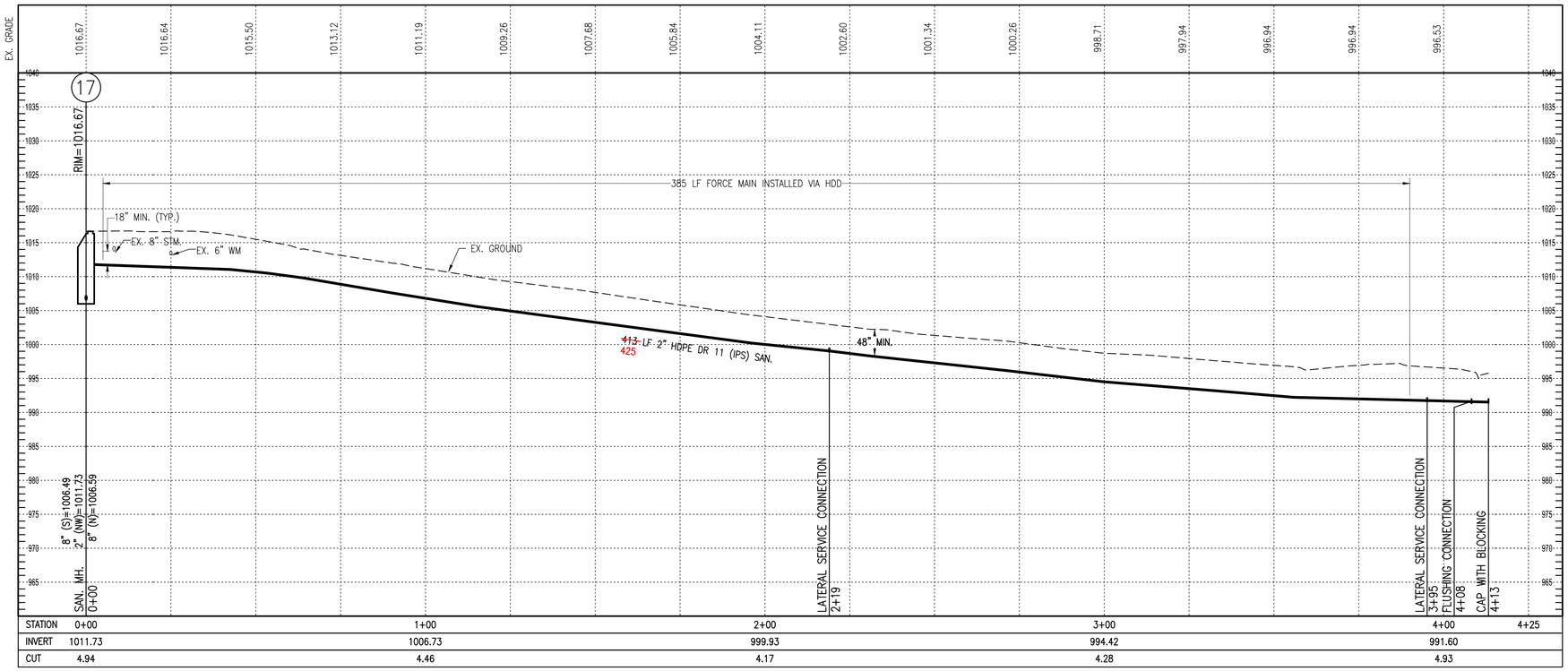
Sheet Number:

C-PP-49

F:\Clients\Active\HCY\HCY005\Design\Drawing\Sheets\HCY005_SAN001.dwg, 49, JVelJic, Aug 06, 2025 - 4:51pm



NOTE:
1. FORCE MAIN FROM STATION 0+05 TO 3+90 AND SERVICE FORCE MAINS CROSSING ROAD SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.
2. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.
3. ITEMS INDICATED, "NOT IN SCOPE", ARE EXCLUDED FROM THE SCOPE OF WORK AND CONTRACTOR SHALL NOT COMPLETE WORK ON RESPECTIVE PRIVATE PROPERTY UNLESS OTHERWISE DIRECTED BY OWNER AND ENGINEER.



STATION	0+00	1+00	2+00	3+00	4+00	4+25
INVERT	1011.73	1006.73	999.93	994.42	991.60	
CUT	4.94	4.46	4.17	4.28	4.93	

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
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REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

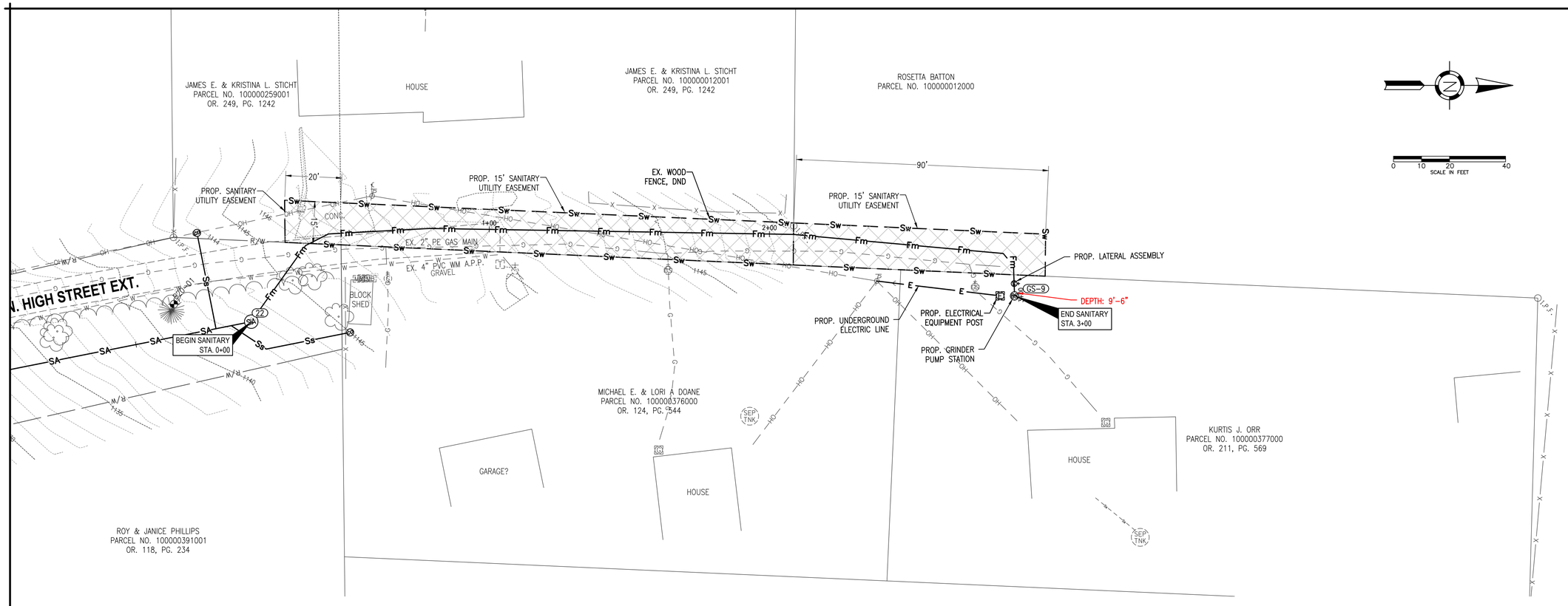
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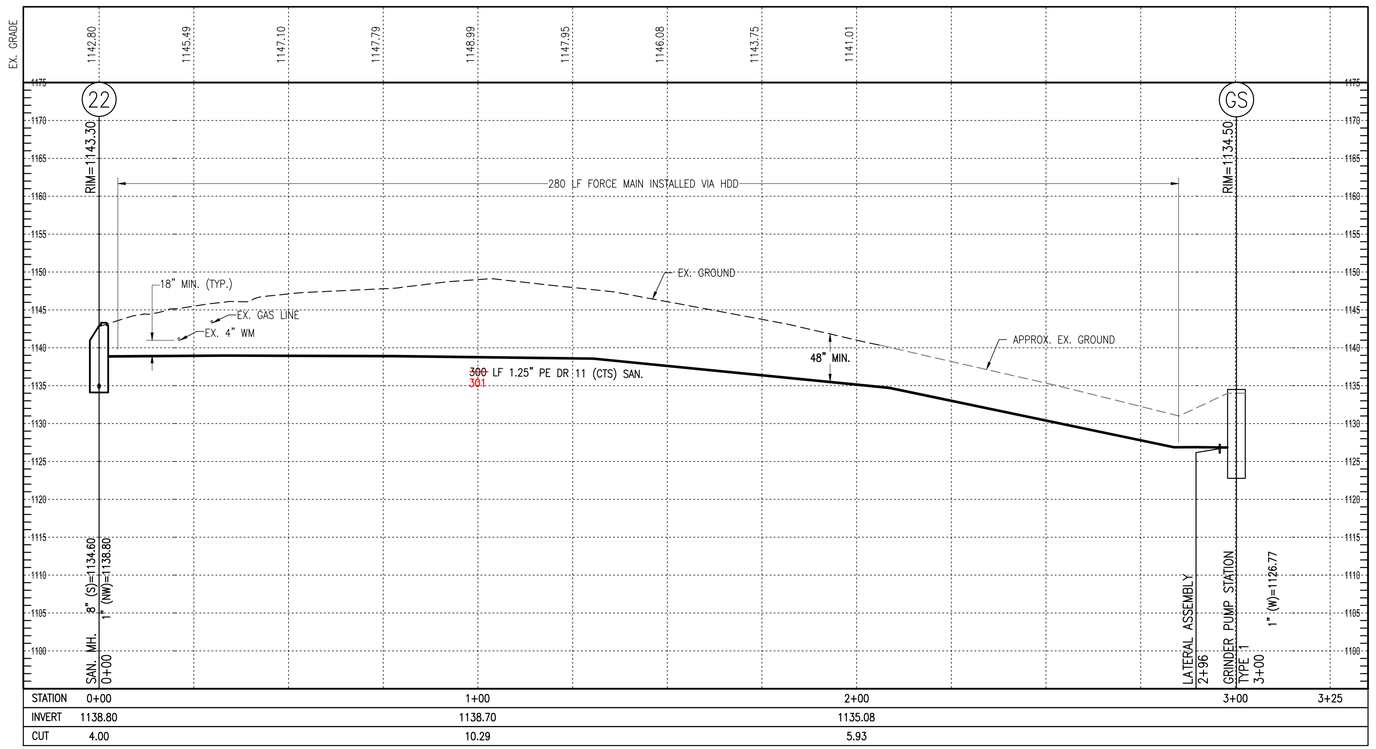
W. MUSKINGUM STREET LOW-PRESSURE SEWER P&P

Sheet Number:

C-PP-50

F:\Clients\Active\HCY\HCY005\Design\Drawing\Sheets\HCY005_SAN001.dwg, 50, JheiJic, Aug 06, 2025 - 4:51pm





NOTES:
1. FORCE MAIN FROM STATION 0+05 TO 2+85 SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.
2. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.

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Professional Seal:

STATE OF OHIO
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REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

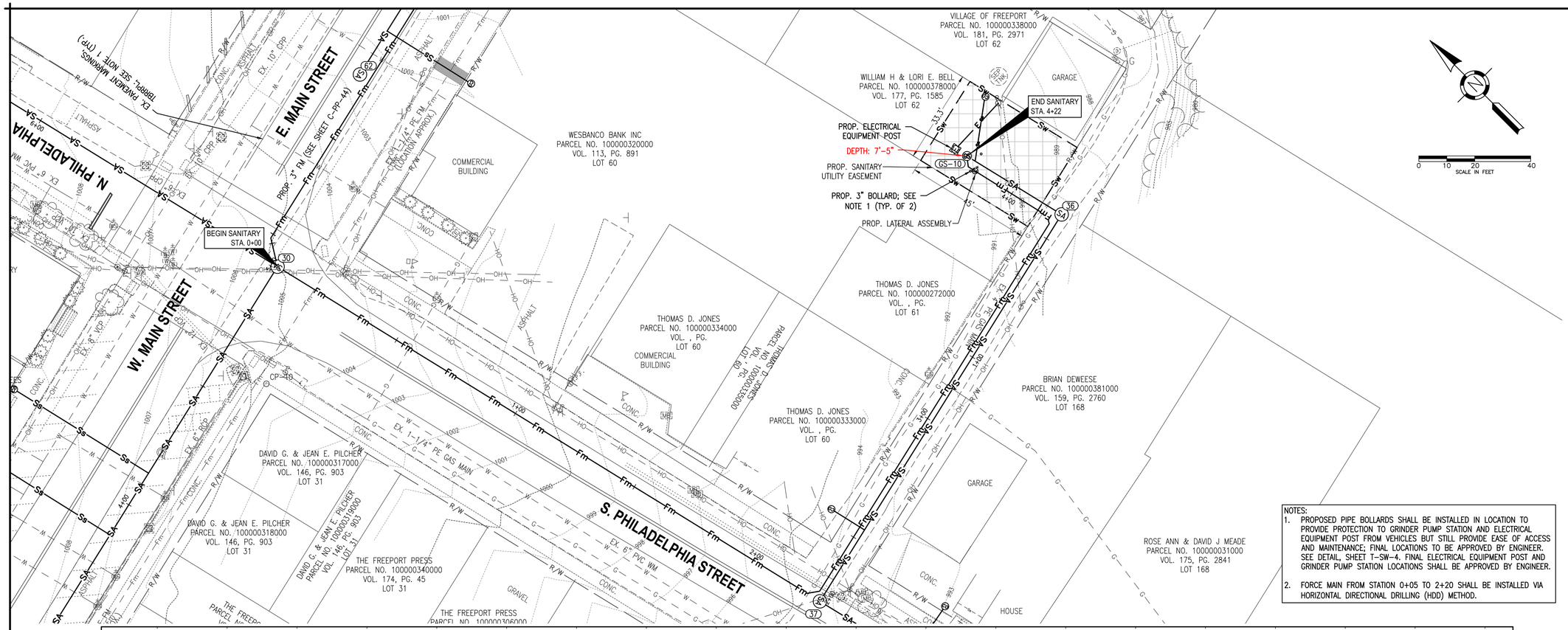
Sheet Title:

N. HIGH STREET EXT.
LOW-PRESSURE
SEWER P&P

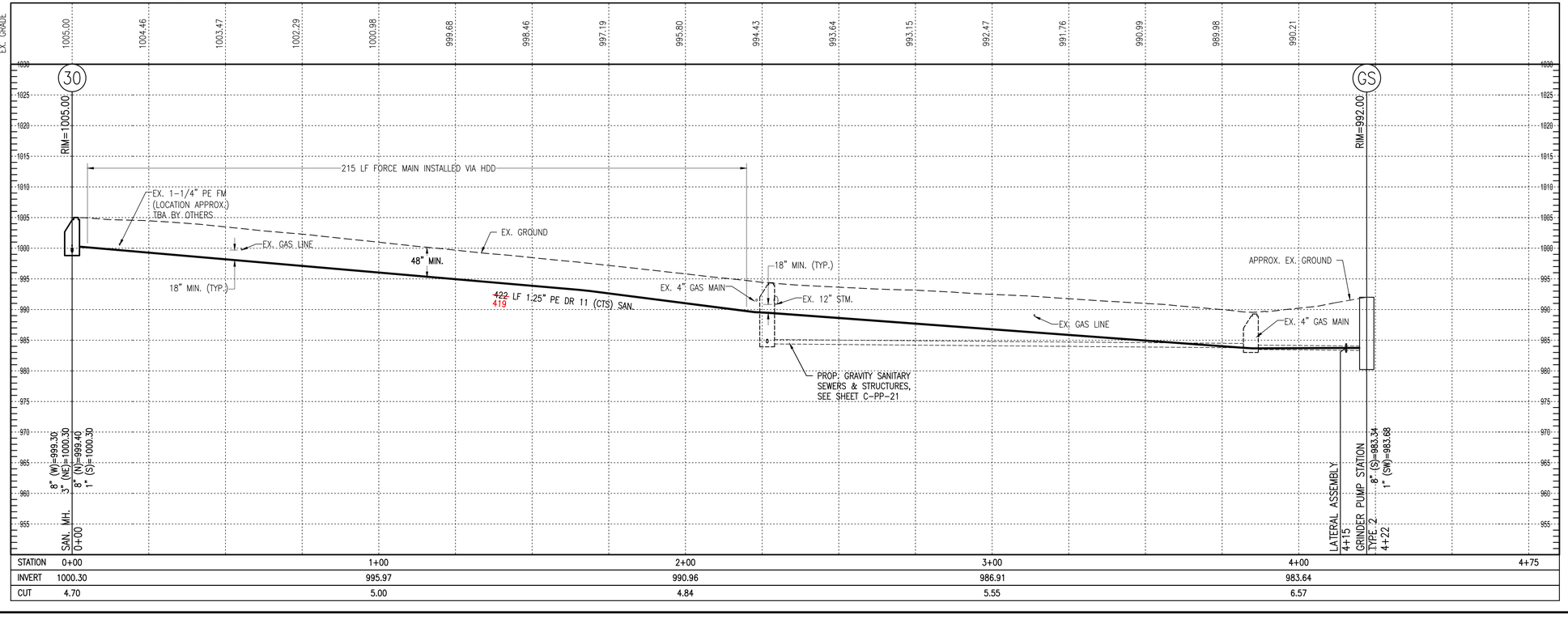
Sheet Number:

C-PP-51

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NOTES:
1. PROPOSED PIPE BOLLARDS SHALL BE INSTALLED IN LOCATION TO PROVIDE PROTECTION TO GRINDER PUMP STATION AND ELECTRICAL EQUIPMENT POST FROM VEHICLES BUT STILL PROVIDE EASE OF ACCESS AND MAINTENANCE; FINAL LOCATIONS TO BE APPROVED BY ENGINEER. SEE DETAIL, SHEET T-SW-4. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.
2. FORCE MAIN FROM STATION 0+05 TO 2+20 SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.



STATION	0+00	1+00	2+00	3+00	4+00	4+75
INVERT	1000.30	995.97	990.96	986.91	983.64	
CUT	4.70	5.00	4.84	5.55	6.57	

F:\Clients\Active\HCY\HCY005\Design\Drawing\Sheets\HCY005_SAN001.dwg, 52_PlotSc, Aug 06, 2025 - 4:51pm

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT SANITARY SYSTEM IMPROVEMENTS HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

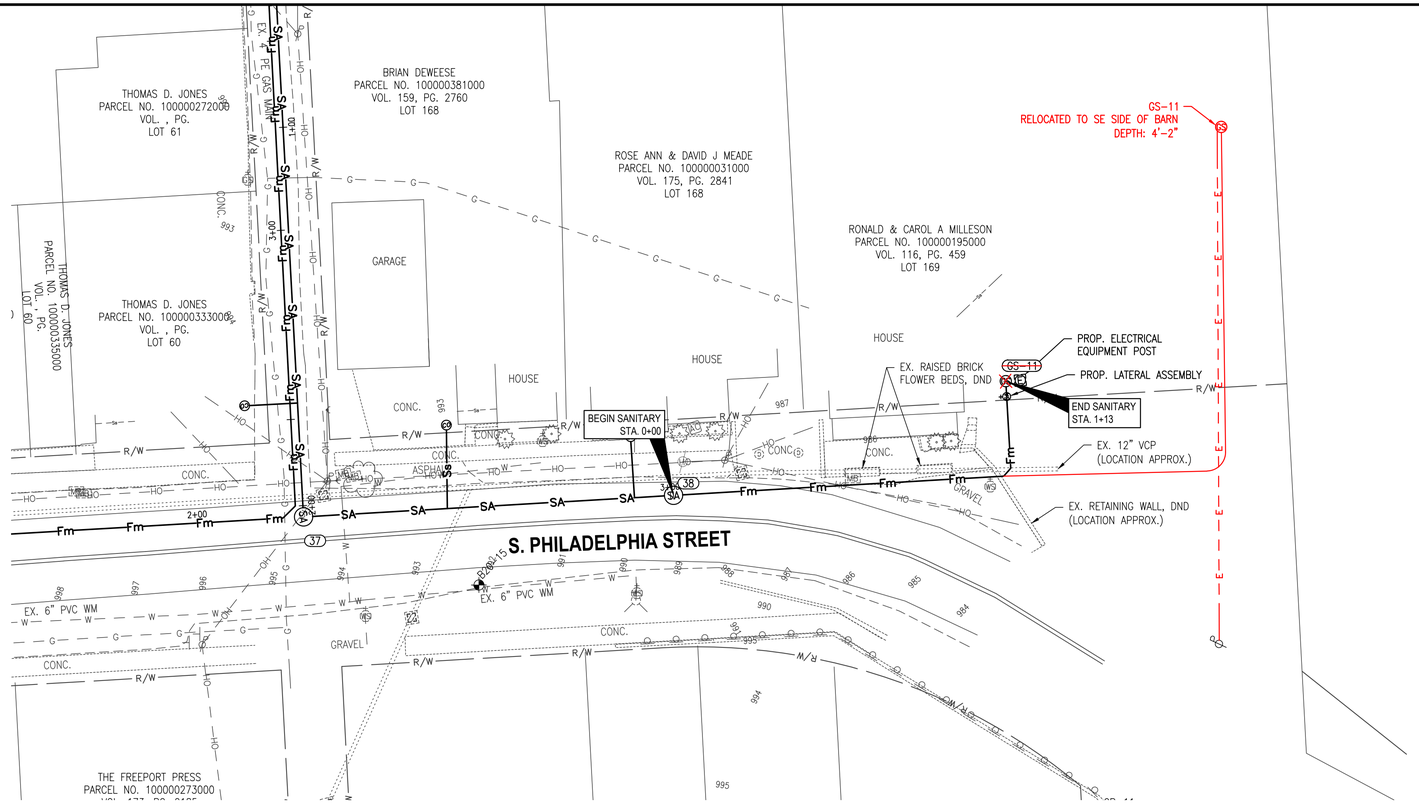
Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

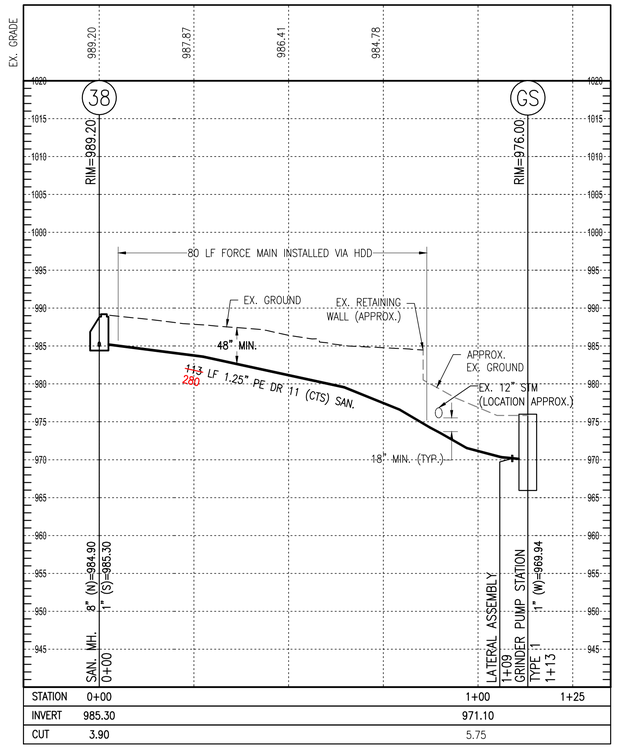
Sheet Title:

S. PHILADELPHIA STREET LOW-PRESSURE SEWER P&P

Sheet Number:

C-PP-52





NOTES:
1. FORCE MAIN FROM STATION 0+05 TO 0+85 SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.
2. IF CONTRACTOR DAMAGES EXISTING RETAINING WALL DURING CONSTRUCTION, DAMAGED SECTIONS SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER.
3. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.

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STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

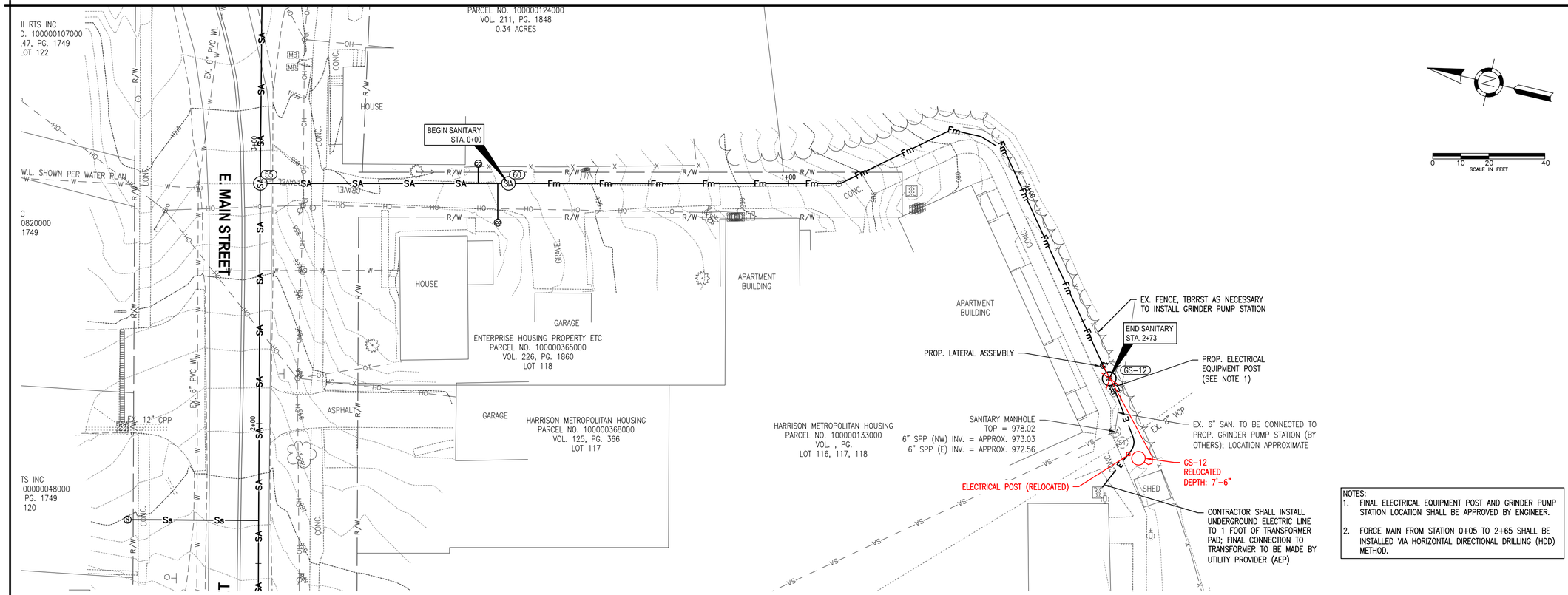
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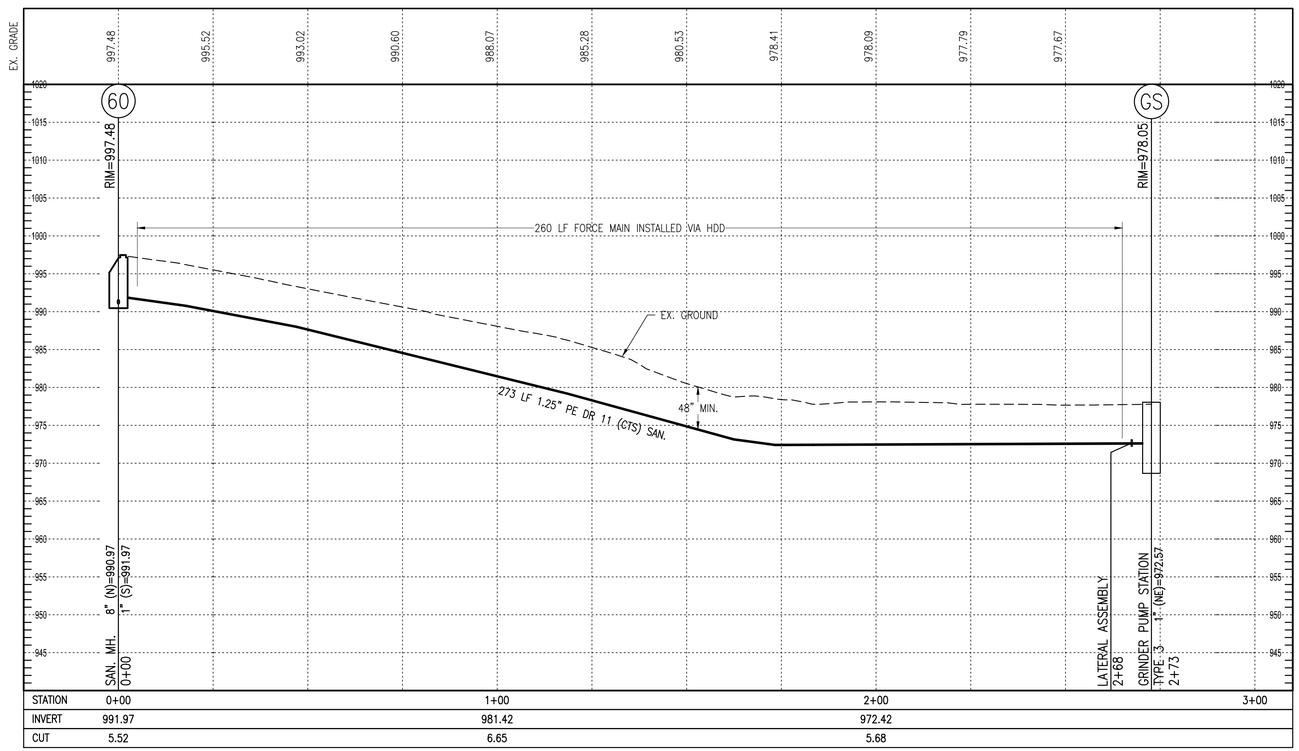
S. PHILADELPHIA STREET LOW-PRESSURE SEWER P&P

Sheet Number:

C-PP-53

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REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

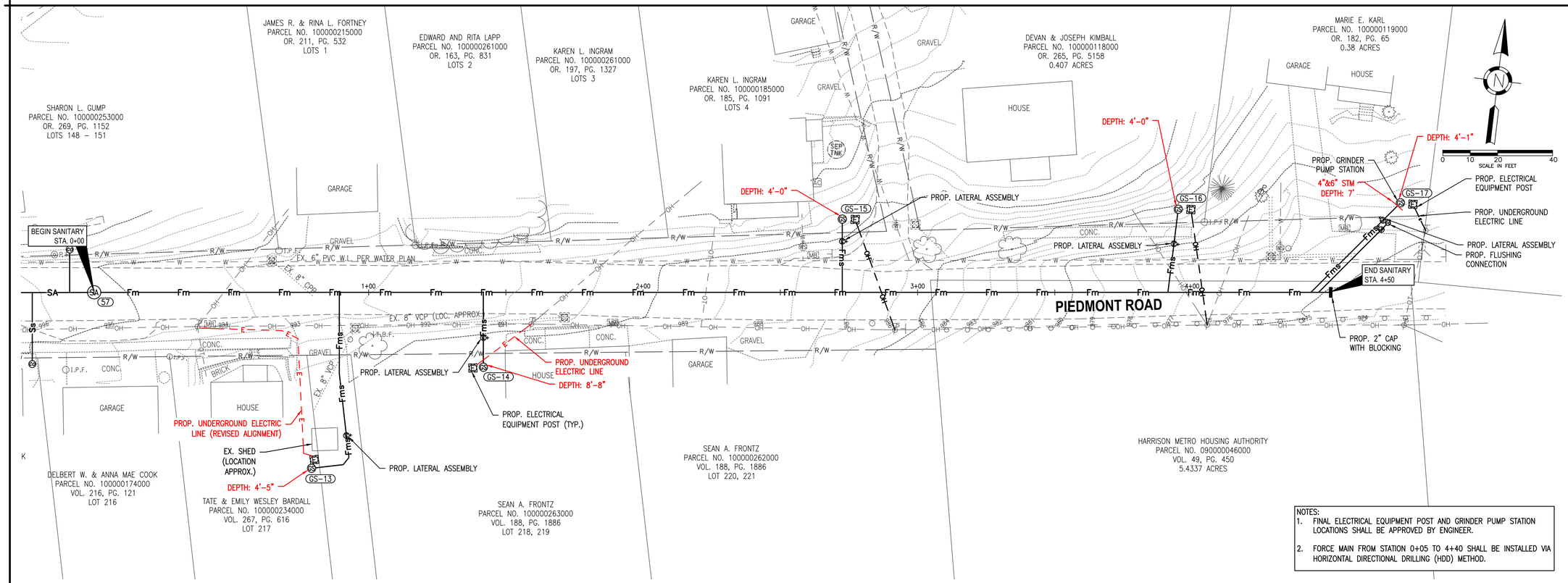
Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

Sheet Title:

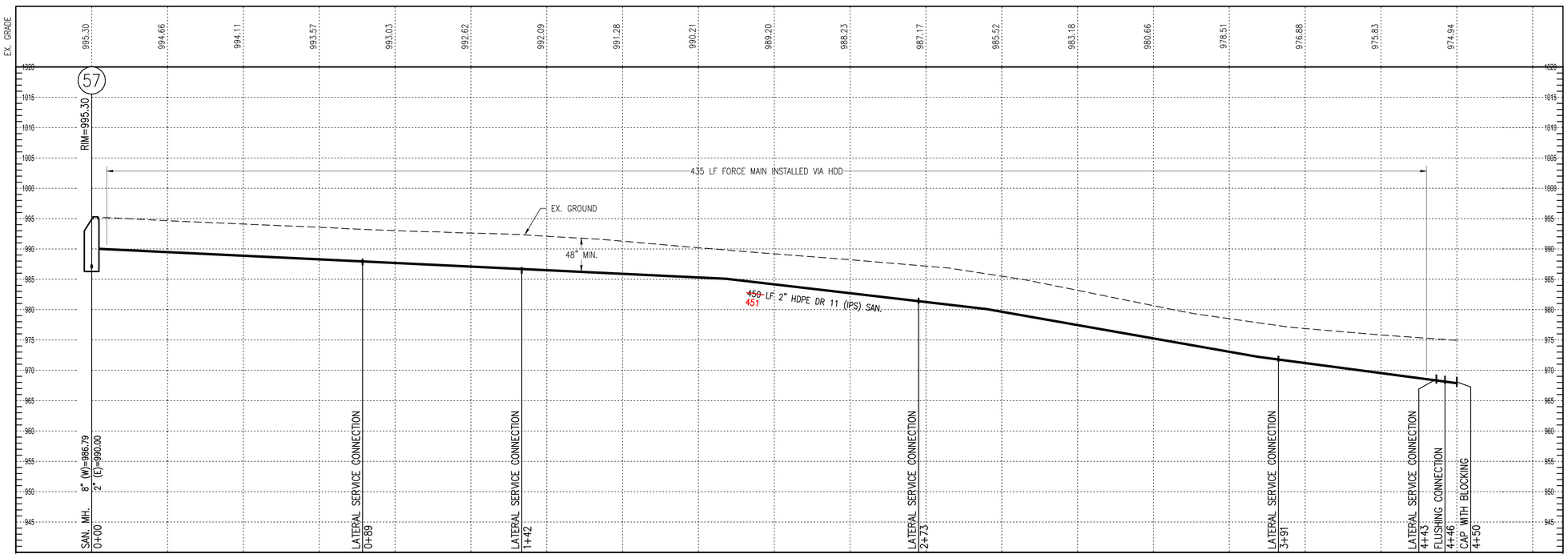
STEEL CREST APARTMENTS LOW-PRESSURE SEWER P&P

Sheet Number:

C-PP-54



NOTES:
1. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.
2. FORCE MAIN FROM STATION 0+05 TO 4+40 SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.



STATION	0+00	1+00	2+00	3+00	4+00	4+75
INVERT	990.00	987.61	985.20	979.56	971.11	
CUT	5.30	5.42	5.00	5.95	5.78	

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REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
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	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	DWS
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

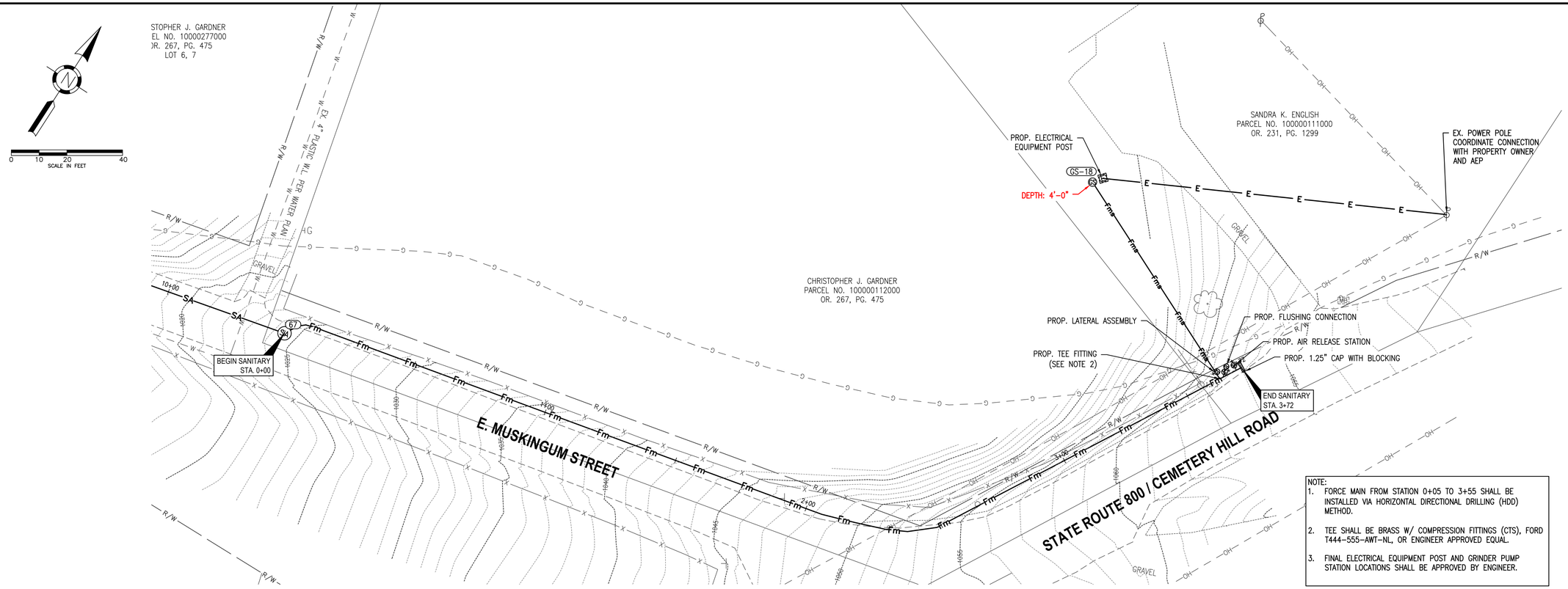
Sheet Title:

PIEDMONT ROAD
LOW-PRESSURE
SEWER P&P

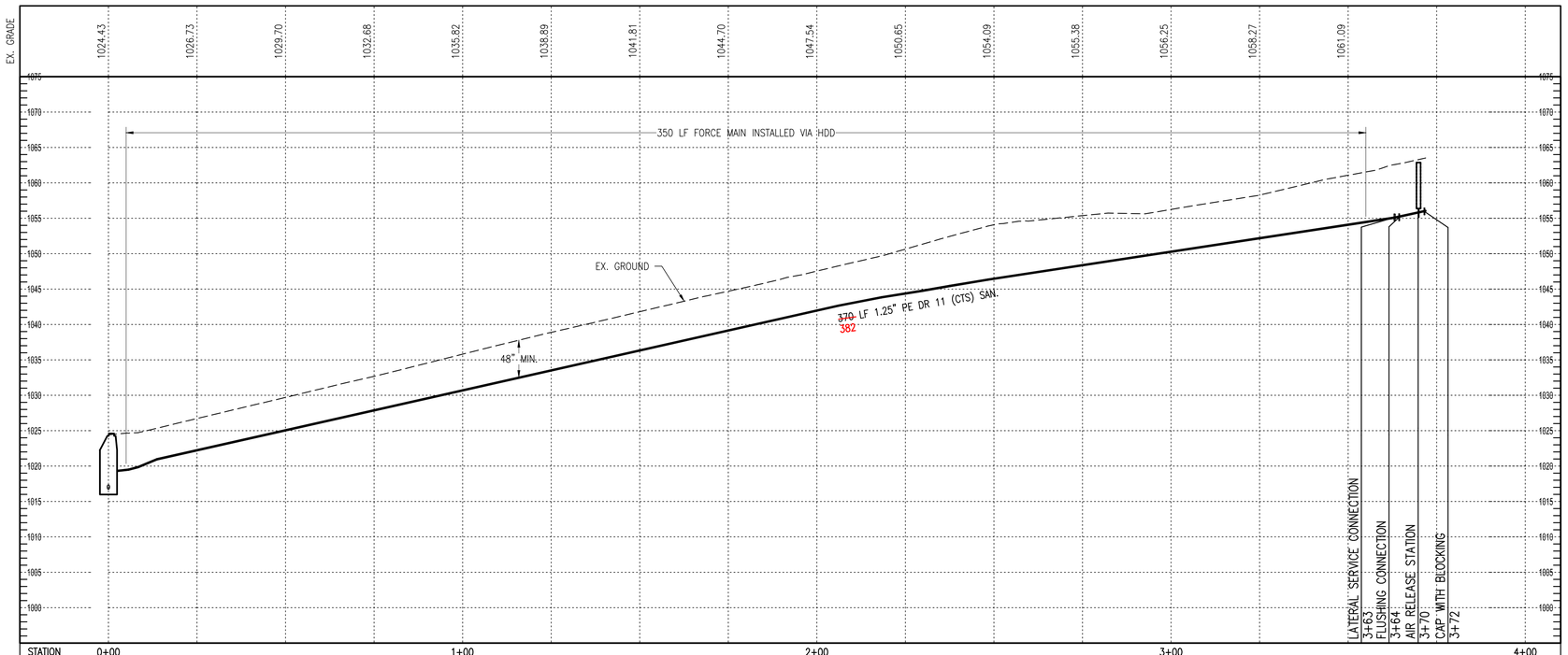
Sheet Number:

C-PP-55

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NOTE:
1. FORCE MAIN FROM STATION 0+05 TO 3+55 SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) METHOD.
2. TEE SHALL BE BRASS W/ COMPRESSION FITTINGS (CTS), FORD T444-555-AWT-NL, OR ENGINEER APPROVED EQUAL.
3. FINAL ELECTRICAL EQUIPMENT POST AND GRINDER PUMP STATION LOCATIONS SHALL BE APPROVED BY ENGINEER.



STATION	0+00	1+00	2+00	3+00	4+00
INVERT	1019.15	1030.60	1042.05	1050.23	
CUT	5.29	5.22	5.49	6.02	

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Professional Seal:

STATE OF OHIO
CHERYL L GREEN
E-47635
REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
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Mark	Description	Date
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	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	H: 1"=20' V: 1"=10'
Issue Date:	AUGUST 2025

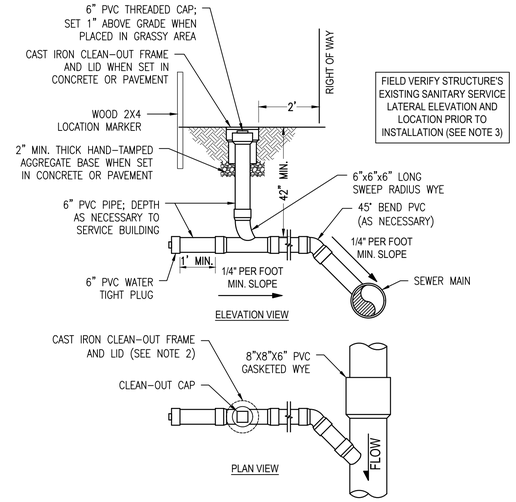
Sheet Title:

STATE ROUTE 800
LOW-PRESSURE
SEWER P&P

Sheet Number:

C-PP-56

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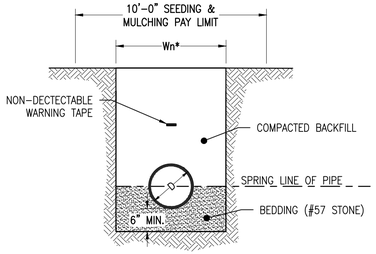


FIELD VERIFY STRUCTURE'S EXISTING SANITARY SERVICE LATERAL ELEVATION AND LOCATION PRIOR TO INSTALLATION (SEE NOTE 3)

1 SERVICE LATERAL & CLEANOUT DETAIL

Scale: N.T.S.

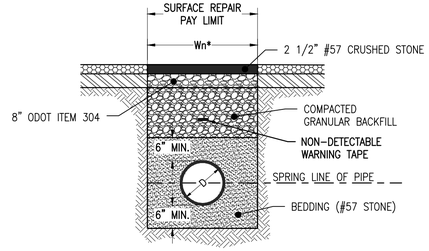
NOTES:
1. SERVICE LATERAL AND CLEANOUT PVC PIPE AND FITTINGS SHALL BE SDR-35.
2. CAST IRON CLEAN-OUT SHALL BE USED WHEN CLEANOUT IS SET IN CONCRETE OR PAVEMENT. LID SHALL BE EMBOSSED, "SANITARY."
3. CONTRACTOR SHALL VERIFY PROPOSED SANITARY SERVICE LATERAL IS SET AT SUFFICIENT DEPTH TO SERVE THE EXISTING SANITARY LATERAL ELEVATION WITHIN STRUCTURE PRIOR TO INSTALLATION. ADJUST SERVICE LATERAL LOCATION AS NECESSARY FOR CONVENIENT CONNECTION BY OTHERS.



2 SEWER TRENCH DETAIL IN GRASSY AREA

Scale: N.T.S.

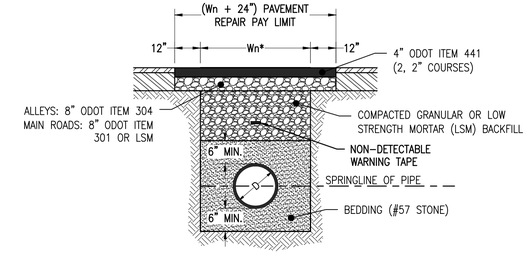
NOTES:
1. IF SOFT OR OTHERWISE UNSUITABLE SOILS ARE ENCOUNTERED AT SUBGRADE DEPTH, OVEREXCAVATE TO FIRM SUBGRADE DEPTH OR AT LEAST 12" BELOW DESIGN SUBGRADE.
2. SEE SPECIFICATIONS FOR ADDITIONAL BEDDING AND BACKFILL REQUIREMENTS.
3. TRENCH DAMS SHALL BE INSTALLED A MINIMUM OF EVERY 200 FEET ALONG THE SEWER MAIN, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



3 SEWER TRENCH DETAIL IN STONE DRIVE

Scale: N.T.S.

NOTES:
1. IF SOFT OR OTHERWISE UNSUITABLE SOILS ARE ENCOUNTERED AT SUBGRADE DEPTH, OVEREXCAVATE TO FIRM SUBGRADE DEPTH OR AT LEAST 12" BELOW DESIGN SUBGRADE.
2. SEE SPECIFICATIONS FOR ADDITIONAL BEDDING AND BACKFILL REQUIREMENTS.
3. TRENCH DAMS SHALL BE INSTALLED A MINIMUM OF EVERY 200 FEET ALONG THE SEWER MAIN, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



4 SEWER TRENCH DETAIL UNDER OR WITHIN 3' OF PAVEMENT

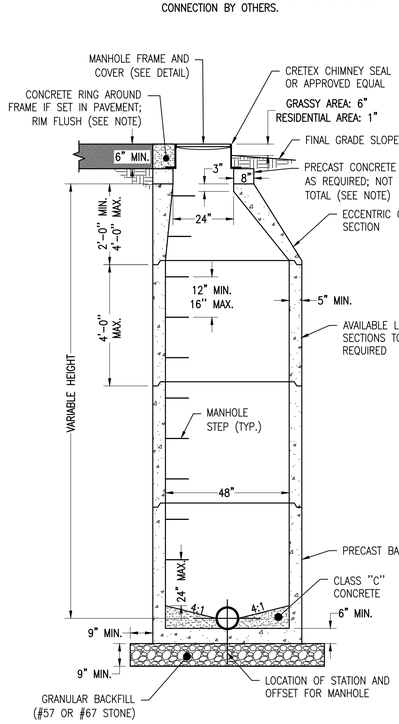
Scale: N.T.S.

NOTES:
1. IF SOFT OR OTHERWISE UNSUITABLE SOILS ARE ENCOUNTERED AT SUBGRADE DEPTH, OVEREXCAVATE TO FIRM SUBGRADE DEPTH OR AT LEAST 12" BELOW DESIGN SUBGRADE.
2. SEE SPECIFICATIONS FOR ADDITIONAL BEDDING AND BACKFILL REQUIREMENTS.
3. TRENCH DAMS SHALL BE INSTALLED A MINIMUM OF EVERY 200 FEET ALONG THE SEWER MAIN, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOMINAL PIPE DIAMETER (D)	MIN. TRENCH WIDTH (Wn*)
6"	30"
8"	30"

* Wn SHOWN FOR TRENCH IS THE MINIMUM WIDTH PERMITTED. ACTUAL WIDTH MAY VARY DEPENDENT ON CONTRACTOR'S CHOICE OF OPERATION. HOWEVER, IN NO EVENT SHALL CONTRACTOR BE PAID FOR QUANTITIES IN EXCESS OF THOSE QUANTITIES CALCUALTED BASED ON Wn.

MANHOLE COVERS WITH RIMS SET AT OR BELOW ELEV. 881.00' SHALL BE WATERTIGHT BOLTED AND GASKETED



MANHOLE NOTES:
ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO ASTM C478 UNLESS OTHERWISE SHOWN.

SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR GROOVE ENDS UP. LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING. ALL LIFT HOLES AND OTHER OPENINGS SHALL BE THOROUGHLY AND NEATLY GROUTED WITH CEMENT MORTAR.

PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 5-INCHES AND REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.

SANITARY MANHOLES SHALL BE WATERTIGHT STRUCTURES. ALL JOINTS TO BE SUPPLIED WITH O-RING RUBBER GASKETS AS PER ASTM C-443.

MANHOLES SHALL BE CARRIED TO PROPER HEIGHT SO THAT THE TOP OF CASTING WILL BE SET AT THE FINISH GRADE. TOP OF CASTING SHALL BE SET FLUSH WITH GRADE WHEN SET WITHIN TRAFFICKED ASPHALT, CONCRETE, OR GRAVEL ROADWAY OR DRIVE, 1 INCH ABOVE FINAL GRADE WHEN SET WITHIN RESIDENTIAL GRASSED AREAS, AND 6 INCHES ABOVE FINAL GRADE WHEN SET WITHIN OPEN GRASSY AREA. WHEN SET IN A GRASSY AREA, SURROUNDING FINAL GRADE SHALL BE SLOPED AWAY FROM MANHOLE TO ALLOW DRAINAGE AWAY FROM MANHOLE.

PROVIDE A UTILITY MARKER FOR EACH MANHOLE LOCATED IN A GRASSY FIELD.

PRECAST GRADE RINGS:
PRECAST CONCRETE GRADE RINGS, GROUTED IN PLACE, SHALL BE USED IF NEEDED BETWEEN THE SLAB OR CONE TOP AND THE ACCESS FRAME CASTING CASTING AND COVER. A 6 INCH THICK GRADE RICK SHALL BE INSTALLED FOR ALL MANHOLES BEING PLACED IN PAVEMENT FOR FLUSH INSTALLATION. CONTRACTOR SHALL INSTALL TAPERED GRADE RINGS AS NECESSARY.

TOP:
THIS SECTION SHALL BE AN ECCENTRIC CONE UNLESS A FLAT SLAB IS SPECIFIED.

REINFORCING STEEL USED WITHIN THE TOP SLAB SHALL BE EPOXY COATED.

SANITARY SEWER - MANHOLE CONNECTIONS:
SEWER PIPE SHALL BE SECURED THROUGH THE MANHOLE WALL BY A KOR-N-SEAL BOOT OR APPROVED EQUIVALENT MEETING ASTM C923.

CHIMNEY SEALS:
A CRETEX CHIMNEY SEAL OR APPROVED EQUAL SHALL BE INSTALLED ON ALL MANHOLES.

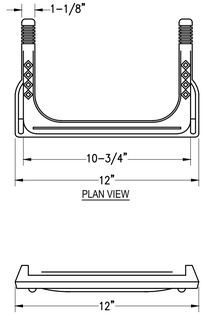
MANHOLE FRAME:
ALL MANHOLES (PUBLIC OR PRIVATE) SHALL USE A NEENAH R-1762 FRAME OR APPROVED EQUAL.

WHERE REQUIRED, CONCRETE RING SHALL BE 4,000 PSI MINIMUM AND CONTAIN 6% ENTRAINED AIR AND A 3" MAXIMUM SLUMP, ODOT ITEM 452. BORDER SHALL BE 12" WIDE AROUND FRAME AND MINIMUM 6" THICK.

MANHOLE COVER:
THE COVER SHALL BE EMBOSSED "SANITARY SEWER."

5 STANDARD PRECAST SANITARY MANHOLE

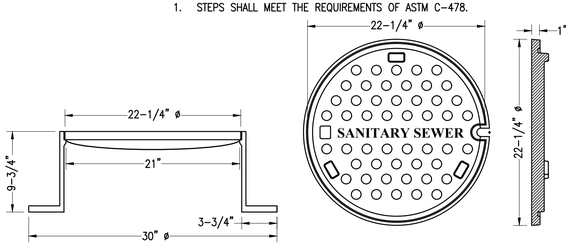
Scale: N.T.S.



6 MANHOLE STEP DETAIL

Scale: N.T.S.

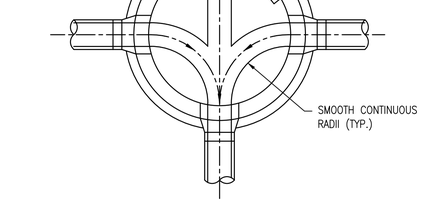
NOTE:
1. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C-478.



7 MANHOLE FRAME AND COVER

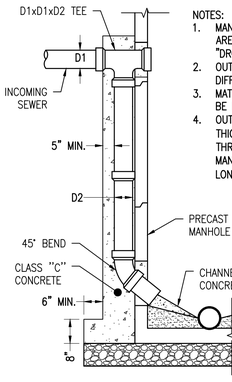
Scale: N.T.S.

NOTE:
1. FRAME AND COVER SHALL BE CAST IRON.



8 PRECAST MANHOLE BASE CHANNELIZATION DETAIL

Scale: N.T.S.



NOTES:
1. MANHOLES REQUIRING AT LEAST ONE OUTSIDE DROP ARE SPECIFIED IN THE PLAN & PROFILE SHEETS AS "DROP SAN. MH."
2. OUTSIDE DROP PIPE IS REQUIRED WHEN INVERT DIFFERENTIAL IS 24" OR GREATER.
3. MATERIALS FOR THE PIPE, TEE, AND BEND SHALL BE PVC SDR-35.
4. OUTSIDE DROP PIPES REQUIRE A MINIMUM 5" THICK CLASS "C" CONCRETE ENCASEMENT ON THREE SIDES OF PIPE AND SHALL BE TIED TO MANHOLE WALL WITH 5/8" S.S. "U" RODS X 5" LONG @ 12".

PIPE DIAMETER	
D1	D2
8"	8"
10"	8"
12"	8"
15"	10"
18"	10"
21"	12"
24"	12"

9 OUTSIDE DROP MANHOLE DETAIL

Scale: N.T.S.

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Professional Seal:



Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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	CONSTRUCTION	08/10/22
	REC	08/06/25

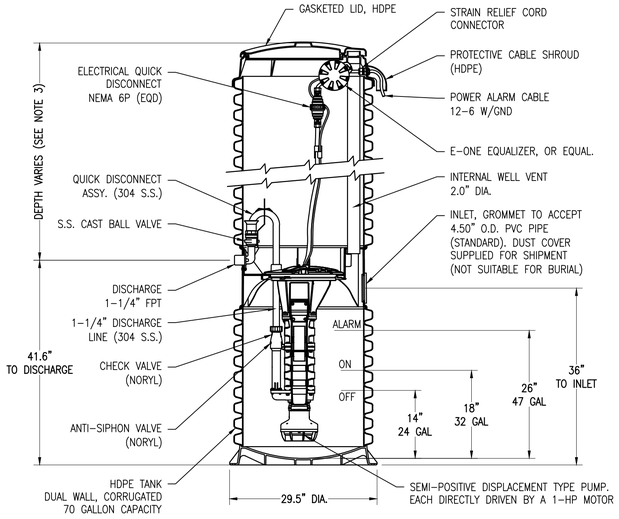
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Drawn By:	AJP
Check By:	CLG
Scale:	
Issue Date:	AUGUST 2025
Sheet Title:	

GRAVITY SEWER DETAILS

Sheet Number:

C-G-1

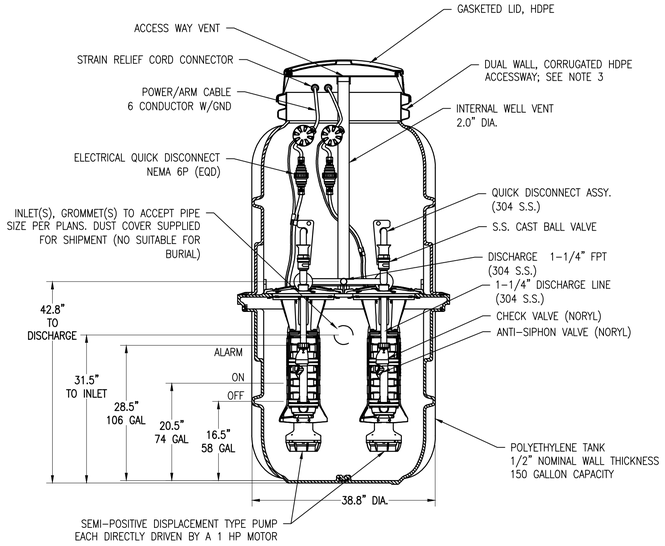
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1 GRINDER PUMP STATION - TYPE 1

Scale: N.T.S.

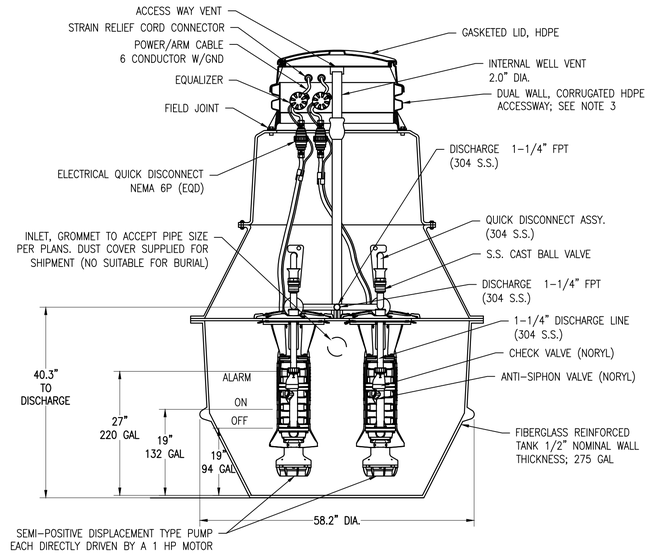
NOTES:
1. TYPE 1 GRINDER PUMP STATION SHALL BE SIMPLEX E-ONE DH071, OR ENGINEER APPROVED EQUAL.
2. CONCRETE BALLAST MAY BE REQUIRED; INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. DEPTH VARIES, CONTRACTOR TO PROVIDE NECESSARY MODEL AND RISERS TO ALLOW FOR SUFFICIENT SERVICE DEPTH AT EACH INSTALLATION.



2 GRINDER PUMP STATION - TYPE 2

Scale: N.T.S.

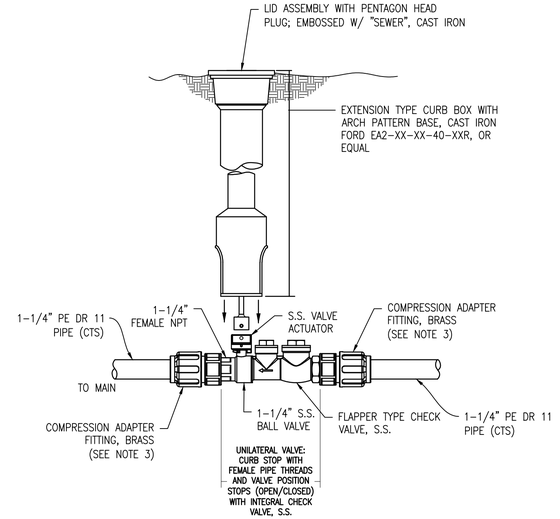
NOTES:
1. TYPE 2 GRINDER PUMP STATION SHALL BE DUPLEX E-ONE DH152, OR ENGINEER APPROVED EQUAL.
2. CONCRETE BALLAST MAY BE REQUIRED; INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. DEPTH TO BE FIELD VERIFIED; CONTRACTOR TO PROVIDE NECESSARY MODEL AND RISERS TO ALLOW FOR SUFFICIENT SERVICE DEPTH AT EACH INSTALLATION.



3 GRINDER PUMP STATION - TYPE 3

Scale: N.T.S.

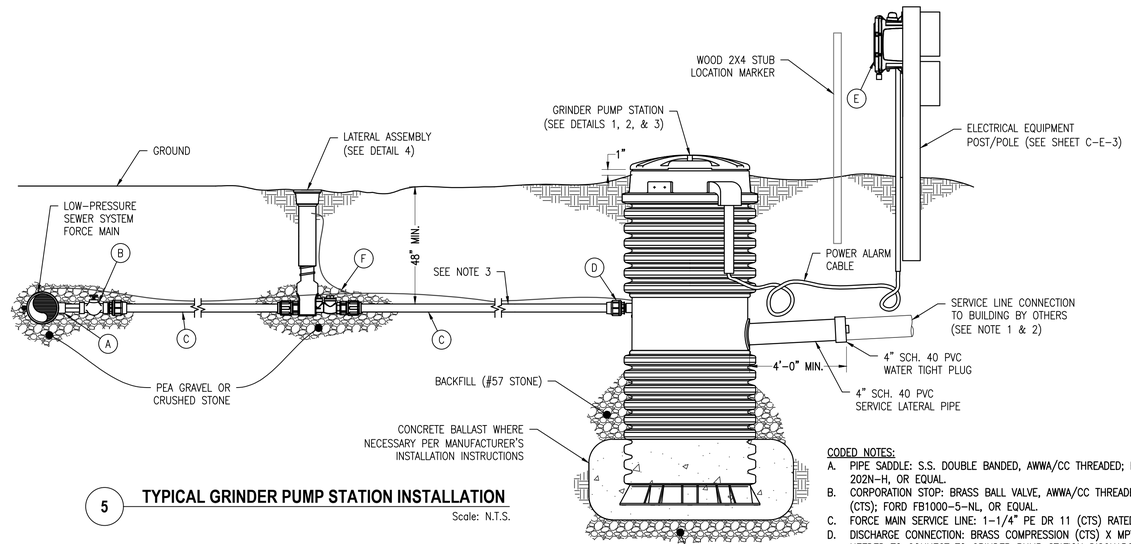
NOTES:
1. TYPE 3 GRINDER PUMP STATION SHALL BE DUPLEX E-ONE DH272, OR ENGINEER APPROVED EQUAL.
2. CONCRETE BALLAST MAY BE REQUIRED; INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. DEPTH TO BE FIELD VERIFIED, CONTRACTOR TO PROVIDE NECESSARY MODEL AND RISERS TO ALLOW FOR SUFFICIENT SERVICE DEPTH AT EACH INSTALLATION.



4 TYPICAL LATERAL ASSEMBLY

Scale: N.T.S.

NOTES:
1. ASSEMBLE ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. UNILATERAL VALVE SHALL BE PROVIDED BY GRINDER PUMP STATION MANUFACTURER.
3. COMPRESSION ADAPTER FITTINGS SHALL BE BRASS COMPRESSION (CTS) X MPT FITTING, FORD C84-55-NL, OR EQUAL.
4. LATERAL LINES AND LOW-PRESSURE SEWER SYSTEM TO BE PRESSURE TESTED.



5 TYPICAL GRINDER PUMP STATION INSTALLATION

Scale: N.T.S.

NOTES:
1. GRINDER PUMP STATION SHALL BE ORIENTED TO ALLOW FOR CONVENIENT CONNECTION OF SERVICE LATERAL BY OTHERS.
2. FIELD VERIFY GRINDER PUMP STATION INLET GROMMET DEPTH IS SUFFICIENT FOR CONNECTION OF STRUCTURE'S SERVICE LATERAL PRIOR TO INSTALLATION. PROPOSED LOCATION MAY REQUIRE ADJUSTMENT TO ALLOW FOR SERVICE; COORDINATE WITH ENGINEER FOR ANY LOCATION CHANGES.
3. WHERE A GRINDER PUMP STATION IS THE DEDICATED SOLE USER OF A 1-1/4" DIAMETER FORCE MAIN WHICH CONNECTS DIRECTLY TO MANHOLE, THE FOLLOWING ARE NOT REQUIRED: LATERAL ASSEMBLY, CORPORATION STOP, AND SADDLE TAP SADDLE. OTHERWISE, INSTALL AS SHOWN IN THIS DETAIL. GS-18 IS AN EXCEPTION, SEE PLAN AND PROFILE SHEET.

CODED NOTES:
- A. PIPE SADDLE: S.S. DOUBLE BANDED, AWWA/CC THREADED; ROMAC STYLE 202N-H, OR EQUAL.
- B. CORPORATION STOP: BRASS BALL VALVE, AWWA/CC THREADED, COMPRESSION (CTS); FORD FB1000-5-NL, OR EQUAL.
- C. FORCE MAIN SERVICE LINE: 1-1/4" PE DR 11 (CTS) RATED TO 200 PSI.
- D. DISCHARGE CONNECTION: BRASS COMPRESSION (CTS) X MPT FITTING, OR AS NEEDED TO CONNECT TO GRINDER PUMP STATION DISCHARGE. FORD C84-55-NL, OR EQUAL.
- E. ALARM PANEL: E-ONE SENTRY ADVISOR PROTECT PLUS ALARM PANEL, OR ENGINEER APPROVED EQUAL (PROVIDED BY MANUFACTURER).
- F. TRACER WIRE: 10 GAUGE COPPERHEAD HS REINFORCED TRACER WIRE MANUFACTURED BY COPPERHEAD INDUSTRIES, LLC., OR EQUAL. CONNECTORS SHALL BE LOCKING BLUE "SNAKEBITE" CORROSION PROOF NON-TWIST WIRE CONNECTORS MANUFACTURED BY COPPERHEAD INDUSTRIES, LLC. WIRE SHALL HAVE 5' OF WIRE TO EXTEND OUT OF LATERAL ASSEMBLY CURB BOX.

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Professional Seal:

STATE OF OHIO · CHERYL L GREEN · E-47635 · REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

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Issue Date:	AUGUST 2025

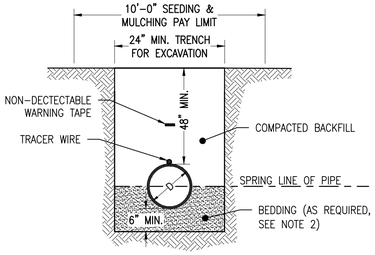
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LOW-PRESSURE SEWER DETAILS

Sheet Number:

C-G-2

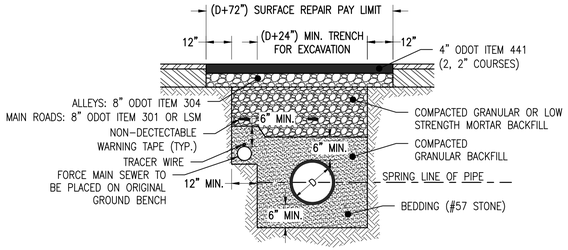
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1 LOW-PRESSURE FORCE MAIN TRENCH IN GRASSY AREA

Scale: N.T.S.

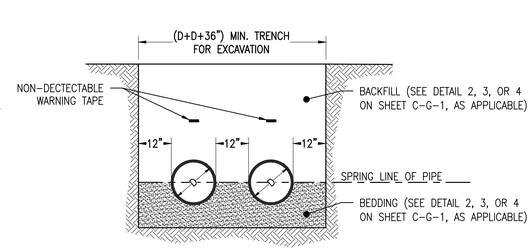
NOTES:
1. IF SOFT OR OTHERWISE UNSUITABLE SOILS ARE ENCOUNTERED AT SUBGRADE DEPTH, OVEREXCAVATE TO FIRM SUBGRADE DEPTH OR AT LEAST 12" BELOW DESIGN SUBGRADE.
2. BEDDING REQUIRED IF ROCK ENCOUNTERED.
3. MINIMUM TRENCH AND SITE REPAIR DIMENSIONS CONSTITUTE PAY LIMIT.



2 SEWER & FORCE MAIN SHARED TRENCH DETAIL

Scale: N.T.S.

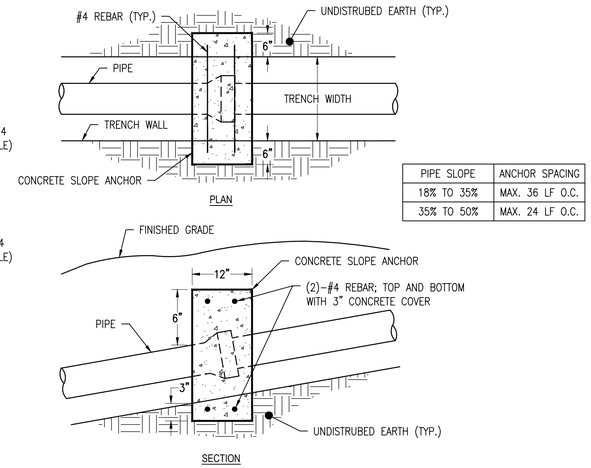
NOTES:
1. IF SOFT OR OTHERWISE UNSUITABLE SOILS ARE ENCOUNTERED AT SUBGRADE DEPTH, OVEREXCAVATE TO FIRM SUBGRADE DEPTH OR AT LEAST 12" BELOW DESIGN SUBGRADE.
2. FORCE MAIN SHALL HAVE MINIMUM 48" OF COVER FROM CROWN OF PIPE TO FINAL GRADE.
3. SEE SPECIFICATIONS FOR ADDITIONAL BEDDING AND BACKFILL REQUIREMENTS.
4. MINIMUM TRENCH AND SITE REPAIR DIMENSIONS CONSTITUTE PAY LIMIT.



3 SERVICE LATERAL SHARED TRENCH DETAIL

Scale: N.T.S.

NOTE:
1. PROPOSED SANITARY SERVICE LATERALS MAY BE INSTALLED IN A SHARED TRENCH TO REDUCE TRENCHING AND SITE REPAIR.
2. MINIMUM TRENCH AND SITE REPAIR DIMENSIONS CONSTITUTE PAY LIMITS.

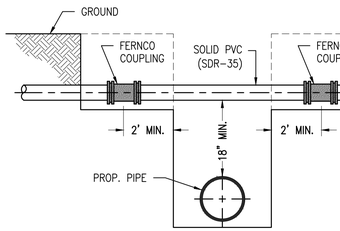


PIPE SLOPE	ANCHOR SPACING
18% TO 35%	MAX. 36 LF O.C.
35% TO 50%	MAX. 24 LF O.C.

4 SLOPE ANCHOR DETAIL

Scale: N.T.S.

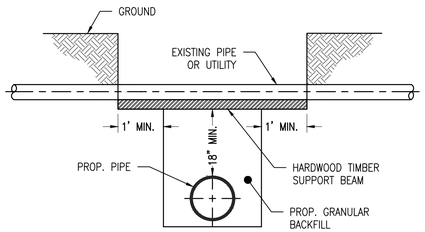
NOTES:
1. ALL DIMENSIONS SHOWN ARE MINIMUM.
2. ANCHORS SHALL BE PLACED AT JOINTS NOT TO EXCEED SPECIFIED O.C. DISTANCES.
3. SLOPE ANCHORS SHALL BE CONSTRUCTED USING FORMS, REMOVE FORMS PRIOR TO BACKFILLING TRENCH.
4. CONCRETE SHALL BE COMMERCIAL GRADE.



5 DRAIN PIPE REPAIR

Scale: N.T.S.

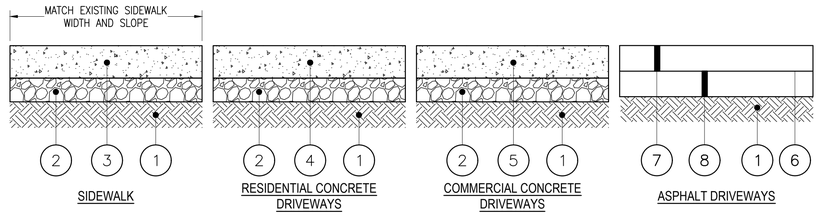
NOTE:
1. FERNCO COUPLINGS SHALL HAVE S.S. RINGS.



6 UTILITY CROSSING

Scale: N.T.S.

NOTE:
1. IN LIEU OF THE TIMBER SUPPORT BEAMS, CONTROLLED DENSITY FILL MAY BE USED BETWEEN THE EXIST. UTILITY AND THE PROPOSED PIPE.



7 SURFACE REPAIR DETAILS

Scale: N.T.S.

CODED NOTES:

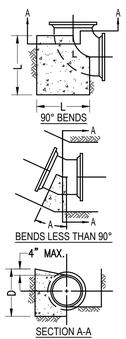
1. ODOT ITEM 204 – SUBGRADE COMPACTION
2. ODOT ITEM 304 – 4" AGGREGATE BASE
3. ODOT ITEM 608 – 4" CONCRETE WALK
4. ODOT ITEM 452 – 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS
5. ODOT ITEM 452 – 7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS
6. ODOT ITEM 407 – NON-TRACKING TACK COAT (SURFACE COURSE 0.055 GAL/SY)
7. ODOT ITEM 441 – 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG-64-22 (MAY BE CHANGED TO MATCH EXISTING ASPHALT)
8. ODOT ITEM 304 – 6" AGGREGATE BASE

NOTES:
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PERTINENT SECTION OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.
2. CONTRACTOR SHALL USE APPLICABLE TRENCH DETAIL ON SHEET C-G-1 FOR SURFACE REPAIR OF GRAVEL AND PAVEMENT IN PUBLIC ALLEYS OR ROADWAYS.
3. EDGES OF THE EXISTING PAVEMENT SHALL BE CUT PER ODOT ITEM 252.02 VERTICAL AND TRIMMED TO PROVIDE A STRAIGHT LINE JUNCTURE BETWEEN EXISTING AND NEW PAVEMENT. NO RAGGED EDGES SHALL BE PERMITTED.

SIDEWALK NOTES:
1. ALL CONCRETE FOR SIDEWALKS SHALL BE 3,500 PSI MINIMUM AND CONTAIN 6% ENTRAINED AIR AND A 3" MAXIMUM SLUMP.
2. CONCRETE SHALL BE PLACED IN ONE COURSE AND FINISHED WITH A BROOM AND ALL EDGES AND JOINTS TO BE TROWEL FINISHED.
3. EXPANSION JOINTS SHALL BE PLACED WHEREVER NEW CONCRETE TOUCHES EXISTING CONSTRUCTION AND AT INTERVALS OF 30' OR LESS CONSTRUCTION JOINTS SHALL BE AT 5' INTERVALS.
4. ALL UTILITY BOXES, METERS, MANHOLES, ETC. IN THE SIDEWALK AREA SHALL BE ADJUSTED TO PROPER GRADE.
5. FORMS SHALL BE MADE OF LUMBER 2" NOMINAL THICKNESS OR OF EQUALLY RIGID METAL.
6. IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED IN AN APPROVED MANNER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE CONCRETE SIDEWALKS FROM VANDALISM AND ACCIDENTAL DAMAGE DURING CURING. DAMAGED/VANDALIZED SECTIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. ADDITIONAL COMPACTED STONE, SUBBASE, MAY BE NEEDED IN AREAS WHERE SIDEWALK IS LOWER THAN SURROUNDING AREA. CONTRACTOR SHALL PROVIDE SUBBASE AS NEEDED FOR PROPER ELEVATION (CURB HEIGHT), SLOPE AND/OR TRANSITION. LIFTS SHALL BE COMPACTED IN 2" LAYERS.
9. CONTRACTOR SHALL PROVIDE TOPSOIL OR 304 STONE FOR BACK SIDE OF SIDEWALK FOR SMOOTH TRANSITION FROM NEW CONCRETE SIDEWALK ELEVATION TO EXISTING GRADE.

SIZE OF PIPE	DEGREE OF BEND											
	11 1/4°			22 1/2°			45°			90°		
	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.
2"	3	2	0.1	3	3	0.1	8	3	0.2	8	3	0.2
3"	4	3	0.1	6	4	0.2	10	4	0.3	10	4	0.3
4"	5	4	0.2	9	5	0.4	14	5	0.6	14	5	0.6
6"	8	6	0.5	12	7	0.7	20	8	1.4	18	9	1.7
8"	9	8	0.7	16	9	1.4	24	12	2.7	25	11	4.0
12"	14	12	1.8	24	14	3.6	36	18	6.8	32	18	10.7
16"	18	16	3.4	32	18	6.7	36	32	13.4	41	26	25.4
20"	25	20	6.4	30	30	11.5	49	36	20.5	50	32	46.5
24"	27	24	9.0	39	34	18.4	60	42	35.0	58	40	77.7

STEEL WILL BE USED AS REQUIRED BY THE ENGINEER



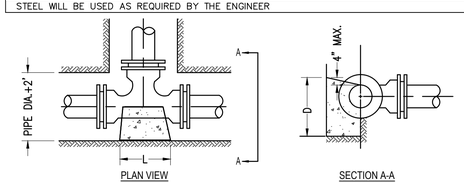
8 BACKING FOR VERTICAL SAGS AND HORIZONTAL BENDS

Scale: N.T.S.

NOTES:
1. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH WITH A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF.
2. CONTRACTOR SHALL PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

RUN	BRANCH																					
	3"			4"			6"			8"			12"			16"			20"			24"		
	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.
3"	12	5	0.5																					
4"	10	6	0.5	11	8	0.8																		
6"	9	7	0.5	11	8	0.8	18	12	1.9															
8"	8	8	0.5	10	9	0.7	18	12	1.9	23	16	3.5												
12"	6	12	0.6	8	12	0.8	18	12	1.9	23	16	3.5	38	22	8.7									
16"	6	16	0.8	6	16	0.8	14	16	2.0	20	18	3.3	36	23	8.7	49	30	13.6						
20	6	20	1.0	6	20	1.0	11	20	1.9	18	20	3.3	35	24	8.7	46	32	13.6	60	38	26.3			
24	6	24	1.2	6	24	1.2	9	24	1.9	15	24	3.3	30	28	8.7	42	36	14.0	54	42	26.3	68	48	45.4

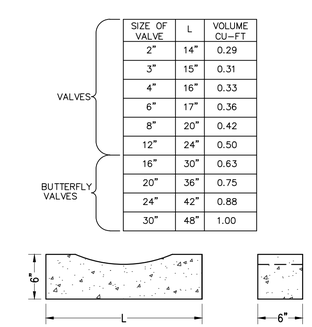
STEEL WILL BE USED AS REQUIRED BY THE ENGINEER



9 BACKING FOR TEES

Scale: N.T.S.

NOTES:
1. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH WITH A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF.
2. CONTRACTOR SHALL PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.



SIZE OF VALVE	L	VOLUME CU-FT
2"	14"	0.29
3"	15"	0.31
4"	16"	0.33
6"	17"	0.36
8"	20"	0.42
12"	24"	0.50
16"	30"	0.63
20"	36"	0.75
24"	42"	0.88
30"	48"	1.00

10 CONCRETE VALVE SUPPORT

Scale: N.T.S.

NOTES:
1. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH WITH A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF.
2. CONTRACTOR SHALL PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

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Professional Seal:

STATE OF OHIO · CHERYL L GREEN · E-47635 · REGISTERED PROFESSIONAL ENGINEER

Date: 08/10/2022

Project Title:

VILLAGE OF FREEPORT
SANITARY SYSTEM IMPROVEMENTS
HARRISON COUNTY, OHIO

Owner:

HARRISON COUNTY
WATER & SEWER DISTRICT

100 WEST MARKET STREET
CADIZ, OHIO 43907

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Mark	Description	Date
	FNL 100%	06/04/21
	BID	03/22/22
	CONSTRUCTION	08/10/22
	REC	08/06/25

Project No.:	HCY005
Plot Date:	8/6/25
Layout By:	HULL
Drawn By:	AJP
Check By:	CLG
Scale:	
Issue Date:	AUGUST 2025

Sheet Title:

MISCELLANEOUS DETAILS

Sheet Number:

C-G-4

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