SET NO.

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP PHASE III

COLLECTION SYSTEM IMPROVEMENTS

APRIL 2025

TOWN OF FAIRMOUNT
TOWN COUNCIL

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KEN POLLEN	MEMBER
ANGIE ARMSTRONG	MEMBER
KAREN POLLEN	MEMBER
STEVE HEDRICK	MEMBER
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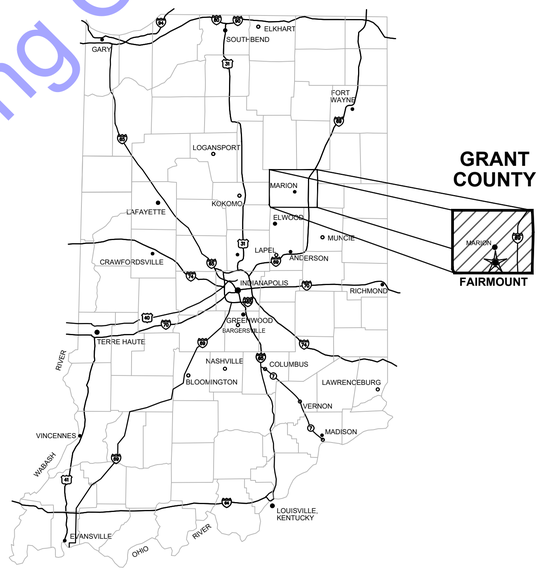
BUD SHELTON	UTILITY SUPERINTENDENT
KYLE PERSINGER	TOWN ATTORNEY



GENERAL LOCATION MAP

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QA/QC BY : CHRIS A LIMCACO, P.E. — DATE : 4/25/2025

CERTIFIED BY : ROBERT M. BELLUCCI — DATE : 4/28/2025
INDIANA P.E. No. 10000127

ROBERT M. BELLUCCI REGISTERED No. 10000127 STATE OF INDIANA PROFESSIONAL ENGINEER

CONTRACT NO. : S24169

File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\A CURRENT FILES\1 DRAWINGS\01-TITLE SHEET.DWG
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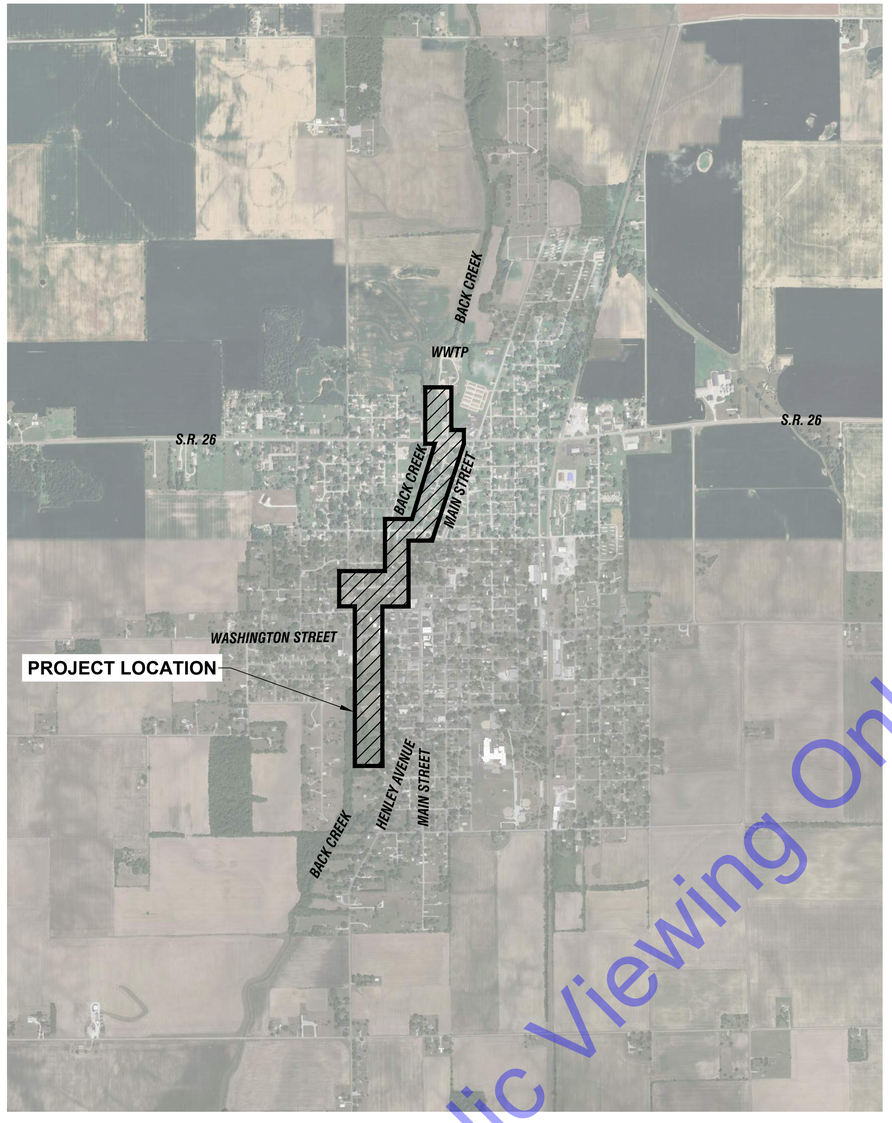

VICINITY MAP

SCALE: 1"=1000'-0"

0 1000' 2000'

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09	C1-04	PLAN AND PROFILE VIEWS - LINE "A"
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VICINITY MAP AND DRAWING SET INDEX

Drawing No: **G2**

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File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\A CURRENT FILES\1 DRAWINGS\02-GENERAL DRAWINGS.DWG
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GENERAL ABBREVIATIONS

A	AIR
AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
@	AT
APP.	APPARENT
ATT	AERATION TANK TRANSFER
AUTO	AUTOMATIC
AVG	AVERAGE
B	BAFFLE
BLDG	BUILDING
BM	BENCH MARK
BOT	BOTTOM
BRG	BEARING
CFM	CUBIC FEET PER MINUTE
CL	CENTERLINE
CO	CLEAN OUT
COL/C	COLUMN
CONC	CONCRETE
COP	COPPER
CJ	CONSTRUCTION JOINT
CW	COLD WATER
CY	CUBIC YARD
D	DRAIN
DEC	DECANT
DIA	DIAMETER
DIM	DIMENSION
DI	DUCTILE IRON PIPE
DL	DEAD LOAD
DSPT	DOWN SPOUT
DWG	DRAWING
E	ELECTRICAL CONDUIT
EA	EACH
EF	EACH FACE
EFFL	EFFLUENT
EL	ELEVATION
EW	EACH WAY
EX	EXISTING
EXF	EXHAUST FAN
EXP JP	EXPANSION JOINT
F	FILTER
FCAR	FLANGED COUPLING ADAPTER, RESTRAINED
FD	FLOOR DRAIN
FDN	FOUNDATION
FH	FIRE HYDRANT
FLD	FILTRATE DRAIN
FLG	FLANGE
FL	FLUSHING LINE
FLR	FLOOR
FM	FORCE MAIN
FRP	FIBER REINFORCED PLASTIC
FT	FEET OR FOOT
FTG	FOOTING
FW	FINISHED WATER
G	GAS
GALV	GALVANIZED
GEN	GENERAL
GRD	GROUND OR GRADE
HB	HOSE BIBB
HORIZ	HORIZONTAL
HP	HORSEPOWER
HW	HOT WATER
ID	INSIDE DIAMETER
IJ	ISOLATION JOINT
INV	INVERT
IP	IRON PIN
LAV	LAVATORY
LB	POUND
LL	LIVE LOAD
LLV	LONG LEG VERTICAL
LTG	LIGHTING
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MGD	MILLIONS GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM, MINUTE
MJ	MECHANICAL JOINT
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTACT
NO	NORMALLY OPEN
NO.	NUMBER
NPW	NON-POTABLE WATER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPG	OPENING
OPP	OPPOSITE
PB	PULL BOX
PE	POLYETHYLENE EXP. JT.
	MATERIAL
P/L	PROPERTY LINE
POJ	PUSH ON JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
R	RECIRULCATION
RAD	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCING
REQ'D	REQUIRED
R/W (ROW)	RIGHT-OF-WAY
SAN	SANITARY
SAS	SANITARY SEWER
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SL	SAMPLE LINE
SOS	STORM SEWER
SP	STOP PLATE
SQ	SQUARE
STD	STANDARD
S STL, SS	STAINLESS STEEL
STL	STEEL
SUP	SUPERNATANT
SY	SQUARE YARD
TOS	TOP OF SLAB
TOW	TOP OF WALL
TW	TERTIARY WATER
TYP	TYPICAL
V	VACUUM OR VALVE
VAR	VARIES
VERT	VERTICAL
W	WEIR
W/	WITH
W/O	WITHOUT
WAS	WASTE ACTIVATED SLUDGE
WC	WATER CLOSET
WH	WATER HEATER
WL	WATER LINE
WWF	WELDED WIRE FABRIC
YH	YARD HYDRANT

GENERAL NOTES

1. ALL PROPERTY AND RIGHT-OF-WAY LINE INFORMATION SHOWN IN DRAWING SET ARE APPARENT AND SHALL NOT BE DEEMED EXACT LOCATIONS, UNLESS OTHERWISE NOTED. INFORMATION WAS OBTAINED VIA "INDIANA ON-LINE" GIS SHAPE FILES.
2. EXISTING UTILITY INFORMATION SHOWN IN DRAWING SET, MEETS "ASCE 36-02" QUALITY LEVEL **"C"**, UNLESS OTHERWISE NOTED.

   UTILITY COORDINATION AND PROJECT DIRECTION OF EXISTING SUBSURFACE UTILITY DATA:

   UTILITY QUALITY LEVEL DESCRIPTIONS:

   UTILITY QUALITY LEVEL A - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATIONS OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE.

   UTILITY QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT.

   UTILITY QUALITY LEVEL C - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL "D" INFORMATION.

   UTILITY QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.
3. NORTHING AND EASTING COORDINATES SHOWN ON ALL MANHOLE, INLETS, ETC. ARE SHOWN FROM CENTER OF STRUCTURE NOT CASTING, UNLESS OTHERWISE NOTED.
4. ALL MANHOLES THAT HAVE PIPE INVERT DIFFERENTIAL OF 2' OR GREATER, SHALL BE CONSIDERED A DROP MANHOLE. CONTRACTOR SHALL REFER TO MISCELLANEOUS DETAILS AND DETAILED SPECIFICATIONS FOR MORE INFORMATION.

PROJECT NOTES

1. LIMITS OF CONSTRUCTION SHALL BE WITHIN EXISTING RIGHT-OF-WAY UNLESS OTHERWISE NOTED.
2. FOR AREAS OUTSIDE OF EXISTING RIGHT-OF-WAYS, THE CONTRACTOR SHALL CONFINE ALL WORK TO THE LIMITS OF PERMANENT AND TEMPORARY EASEMENTS OR CONSTRUCTION LIMIT BOUNDARIES AS SHOWN ON THE DRAWINGS.
3. EXISTING SIGNS TO BE REMOVED AND RESET AFTER CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF FAIRMOUNT.
4. EXISTING SIDEWALK TO BE REPLACED TO THE NEAREST JOINT AND REPLACED AS NEEDED FOR INSTALLATION OF NEW CURB RAMPS. ALL NEW SIDEWALKS AND RAMPS SHALL BE ADA COMPLIANT.
5. THE CONTRACTOR SHALL PRESERVE AND PROTECT PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKERS AND BENCHMARKS, SUCH AS STONES, PIPES, OR OTHER MONUMENTS ENCOUNTERED. IF THE CONTRACTOR MUST DISTURB THE PROPERTY MARKERS OR MONUMENTS, THEIR HORIZONTAL AND VERTICAL LOCATION SHALL BE DETERMINED AND RECORDED BY A REGISTERED LAND SURVEYOR AND THE OWNER NOTIFIED BEFORE DISTURBING. ALL PROPERTY MARKERS AND MONUMENTS DISTURBED DURING CONSTRUCTING SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR OR TO FINAL COMPLETION.
6. REGRADE AREAS AS NECESSARY WITHIN THE CONSTRUCTION LIMITS TO ALLOW PROPER DRAINAGE TO EXISTING STORM SEWER STRUCTURES. ANY EXCESS SOIL AND SPOIL MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE.
7. SANITARY LATERALS SHALL BE CONNECTED USING "MAXADAPTOR" AND WATER SERVICE LINES SHALL UTILIZE COMPRESSION COUPLINGS.
8. CONTRACTOR TO ASSUME NEW CONNECTION TO EXISTING WATER SERVICE LINE SHALL REQUIRE COMPRESSION FITTINGS DUE TO EXISTING COPPER LINES. CONTRACTOR SHALL CONFIRM DURING CONSTRUCTION.
9. ALL EXISTING WATER SERVICE LINES AND SEWER LATERALS WITHIN EXTENTS OF EXCAVATION LIMITS SHALL BE DEMOLISHED, REMOVED, AND DISPOSED OF COMPLETE, REPLACED WITH NEW AND RECONNECTED TO EXISTING/NEW WATER LINES/SEWERS AS NOTED, WITH THE INTERRUPTION OF CUSTOMER SERVICE TO BE LIMITED TO A TOTAL OF 2 HOURS.
10. SEE EXISTING AND NEW SANITARY AND STORM STRUCTURES DATA TABLES FOR ADDITIONAL DETAILS.
11. SEE DEMOLITION DRAWINGS FOR APPARENT LOCATION / PRESENCE UNDER AND ABOVE GROUND UTILITIES WITHIN THE EXCAVATION LIMITS.

HATCHING SYMBOLS

- -CMU WALL (PLAN VIEW)
-GRANULAR BACKFILL (PROFILE VIEW)
- - DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)
- - GROUT
- - CONCRETE
- - STEEL
- - COMPACTED GRANULAR BACKFILL OR COMPACTED FOUNDATION
- - ABANDONED IN PLACE

DRAWING SET LEGEND

- EXOHT — EXISTING OVERHEAD TELEPHONE LINE
- EXG — EXISTING GAS LINE AND VALVE
- EXW — EXISTING WATER LINE AND VALVE
- EXF/O — EXISTING FIBER OPTIC LINE
- EXOHE — EXISTING OVERHEAD ELECTRIC LINE
- EXBE — EXISTING BURIED ELECTRIC
- NPW — EXISTING NON-POTABLE WATER LINE
- POT — EXISTING POTABLE WATER LINE
- EXBT — EXISTING BURIED TELEPHONE LINE
- X — EXISTING FENCE
- APP. R/W — APPARENT RIGHT-OF-WAY
- APP. P/L — APPARENT PROPERTY LINE
- EDGE OF ROAD
- EDGE OF ROAD WITH CURB
- 785 — EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- W — **NEW WATER LINE**
- 785 — **PROPOSED MAJOR CONTOUR LINE**
- 784 — **PROPOSED MINOR CONTOUR LINE**
- **EXTENTS OF EXCAVATION FOR NEW INTERCEPTOR**

- AC UNIT
- BOLLARD
- BOULDER / LARGE ROCK
- CL CENTER LINE MONUMENT
- RW ROW MONUMENT
- CONTROL POINT / BENCH MARK
- DRILL HOLE
- MB MAIL BOX
- FLAG POLE
- POST
- STUMP
- BUSH / HEDGE
- DECIDUOUS TREE
- CONIFEROUS TREE
- SIGN
- UTILITY LOCATE FLAG
- GAS LINE MARKER
- GV GAS VALVE
- GAS METER
- GUY POLE
- POWER POLE
- LIGHT POLE
- GUY WIRE
- EM ELECTRIC METER
- ELECTRIC PANEL
- ET ELECTRIC TRANSFORMER
- HAND HOLE BOX
- FIBER OPTIC MARKER
- TP TEL/TV PEDESTAL

- T TELEPHONE MANHOLE
- TELEPHONE LINE MARKER
- TR TRAFFIC MANHOLE
- WATER LINE MARKER
- W WATER METER
- V VALVE
- IV IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- FLUSH HYDRANT
- YARD HYDRANT
- WALL SPIGOT
- EXISTING PIPE PLUG
- STORM CATCH BASIN (SQUARE)
- STORM CATCH BASIN (ROUND)
- STORM CURB INLET
- D STORM MANHOLE
- S SANITARY MANHOLE
- SV SANITARY VALVE
- CLEANOUT
- VENT
- **NEW VALVE**
- **NEW FIRE HYDRANT**
- **NEW FLUSH HYDRANT**
- **NEW WET SADDLE AND VALVE BODY**
- **NEW PLUG**
- NS **NEW LINE STOP**
- **NEW CUT AND CAP**
- **NEW SANITARY MH**

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GENERAL ABBREVIATIONS, LEGENDS, SYMBOLS, AND NOTES

Drawing No: **G3**

Sheet: 03 OF 57

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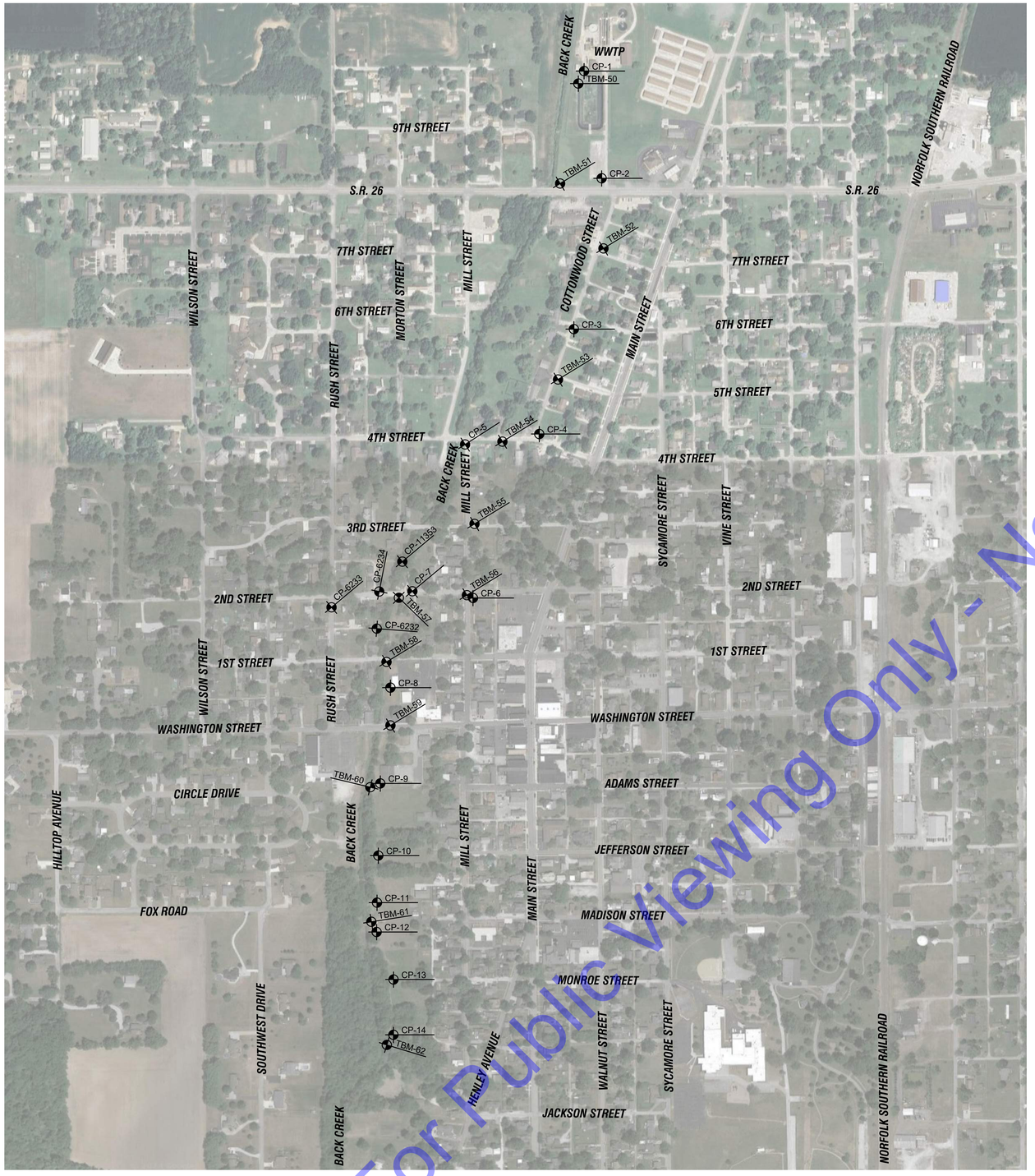

PLAN VIEW

SCALE: 1"=300'-0"

0 300' 600'

CONTROL POINT INFORMATION

IDENTIFIER	NORTHING	EASTING	DESCRIPTION
CP-1	1885244.78	332788.94	CAPPED REBAR
CP-2	1884728.23	332873.56	CAPPED REBAR
CP-3	1884001.39	332739.46	CAPPED REBAR
CP-4	1883496.31	332572.87	CAPPED REBAR
CP-5	1883445.84	332215.32	CAPPED REBAR
CP-6	1882706.15	332253.15	CAPPED REBAR
CP-7	1882738.56	331961.03	CAPPED REBAR
CP-8	1882274.23	331855.33	CAPPED REBAR
CP-9	1881812.77	331806.46	CAPPED REBAR
CP-10	1881465.26	331797.07	CAPPED REBAR
CP-11	1881238.40	331790.62	CAPPED REBAR
CP-12	1881096.91	331788.70	CAPPED REBAR
CP-13	1880868.11	331870.31	MAGSPK
CP-14	1880601.75	331869.77	MAGSPK
CP-6232	1882558.49	331789.36	MAGSPK
CP-6233	1882661.20	331571.38	MAGSPK
CP-6234	1882737.30	331801.15	MAGSPK
CP-11353	1882881.34	331912.63	MAGSPK

TEMPORARY BENCHMARK INFORMATION

IDENTIFIER	ELEVATION	DESCRIPTION
TBM-50	857.45	TBM /CUTSQUARE-SW-COR-TANK
TBM-51	854.87	TBM /RRSPK-UP-1.0-S-SIDE-PP
TBM-52	863.38	TBM /CUT-X-SW-BONNETBOLT-FH
TBM-53	861.03	TBM /BOATSPK-1.0-UP-W-SIDE-PP
TBM-54	858.34	TBM /BOATSPK-1.0-UP-N-SIDE-PP
TBM-55	858.71	TBM /CUT-X-SSW-BONNETBOLT-FH
TBM-56	859.41	TBM /RRSPK-1.0-UP-NE-SIDE-PP
TBM-57	857.99	TBM /CUT-TRIANGLE-N-END-SE-WINGWALL
TBM-58	857.60	TBM /CUT-SQUARE-N-END-SE-WINGWALL
TBM-59	859.53	TBM /BOATSPK-1.0-UP-SE-SIDE-PP
TBM-60	858.25	TBM /CUT-SQUARE-S-END-OUTFALL-HDW
TBM-61	858.19	TBM /CUT-SQUARE-CENTER-OUTFALL-HDW
TBM-62	858.96	TBM /CUTSQUARE-NE-SIDE-CSO018-STRUCTURE

Project coordinates are based on the following:
HORIZONTAL-US State plane coordinates: NAD83 *(North American Vertical Datum)* Indiana East Zone (1301)
VERTICAL- USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)

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SURVEY DATA

Drawing No: **G4**

Sheet: 04 OF 57

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PLAN VIEW

SCALE: 1"=300'-0"

0 300' 600'

GENERAL NOTES:

1. **DRAWING NUMBER REFERS TO PLAN AND PROFILE VIEW DRAWINGS.**

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4/28/25	S24169	AS SHOWN

DRAWING INDEX

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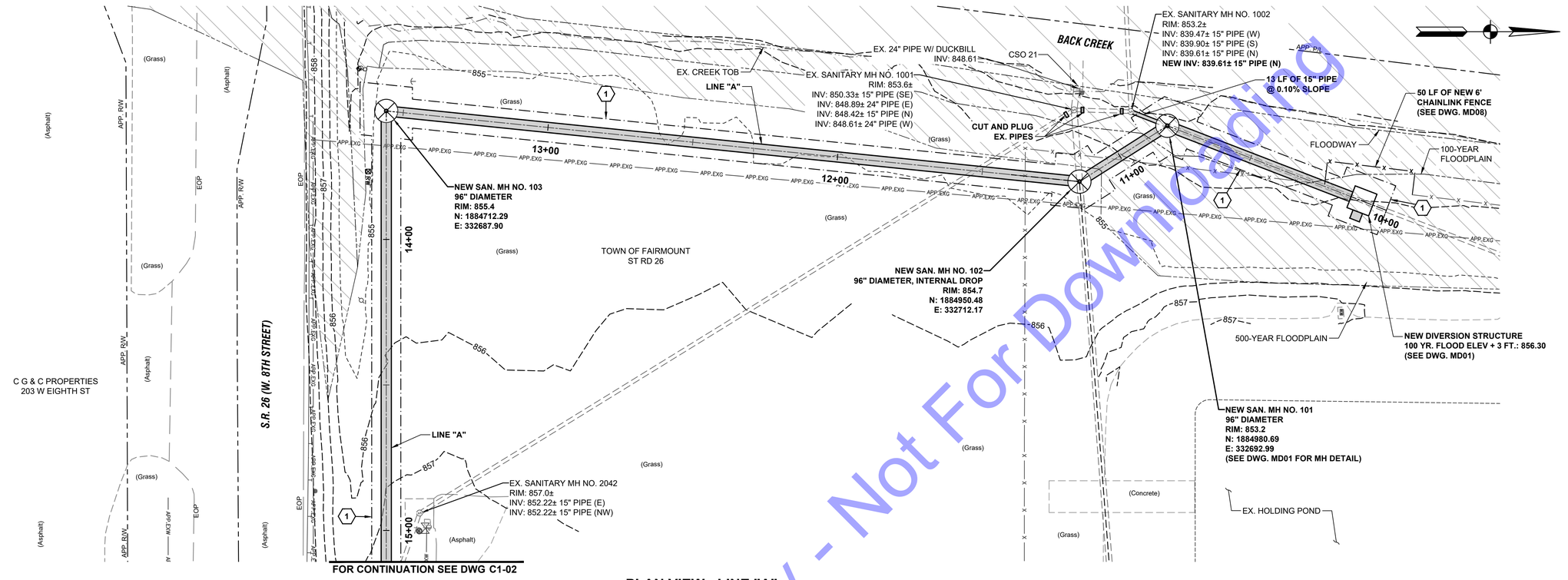
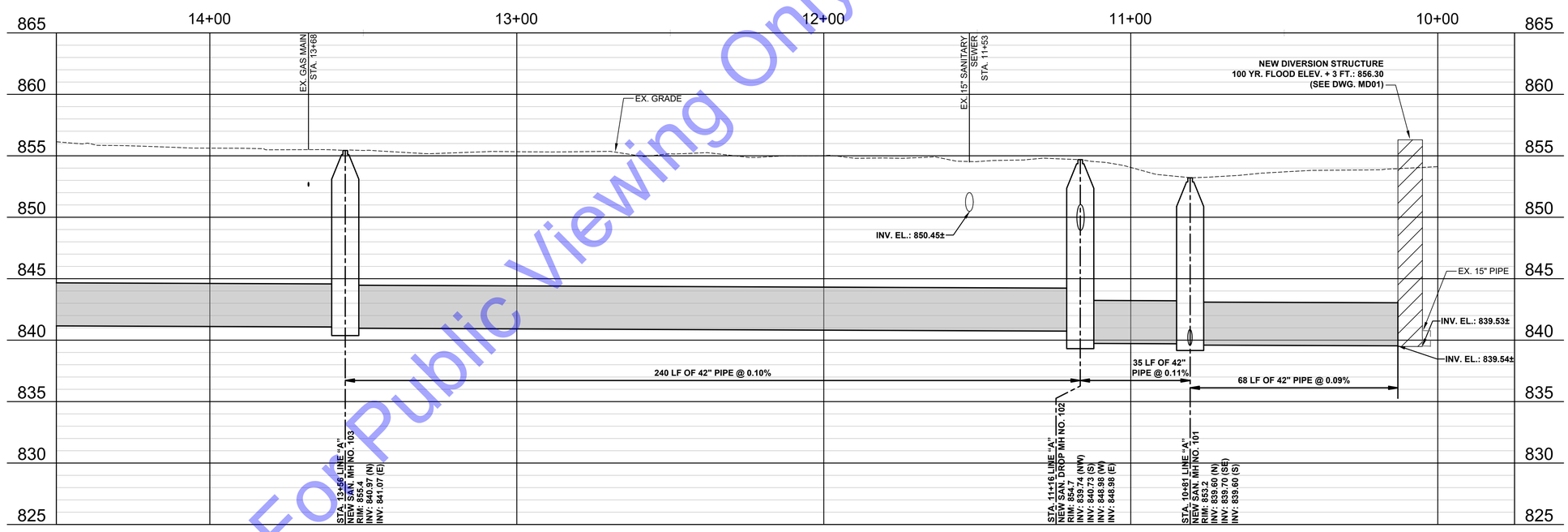


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'

VERTICAL SCALE: 1"=5'
5' 0

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No:
C1-01
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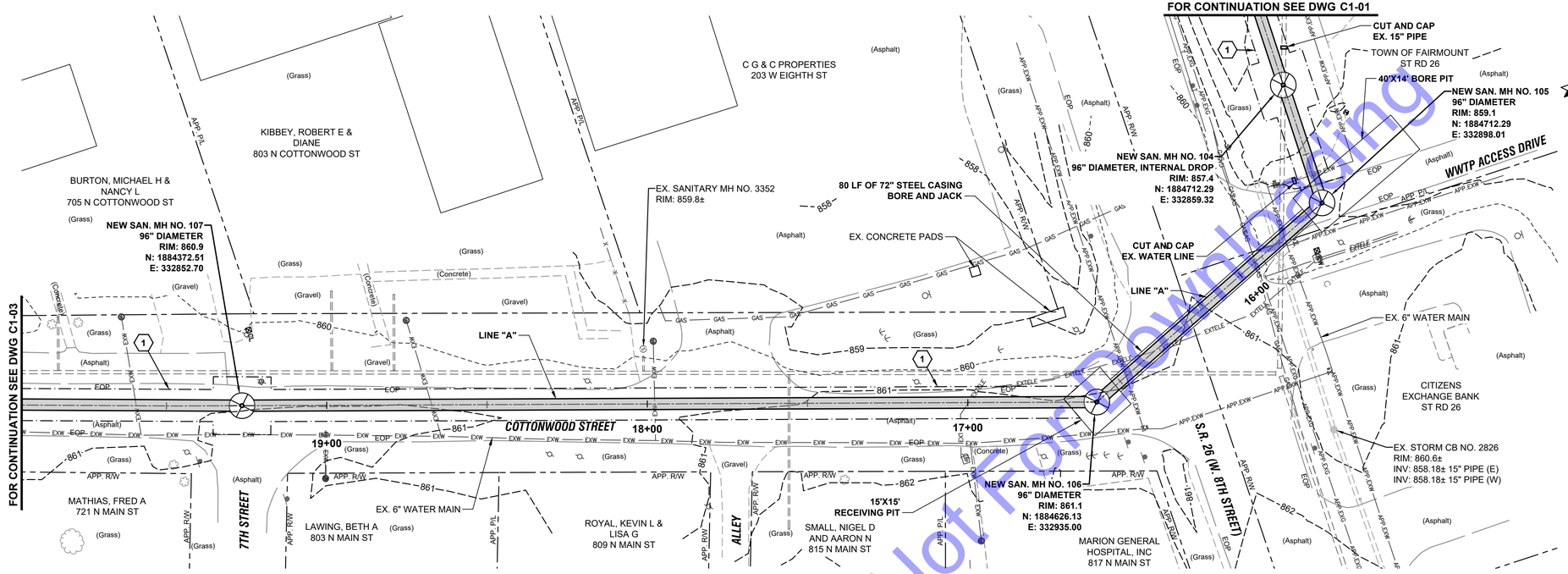

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-02**

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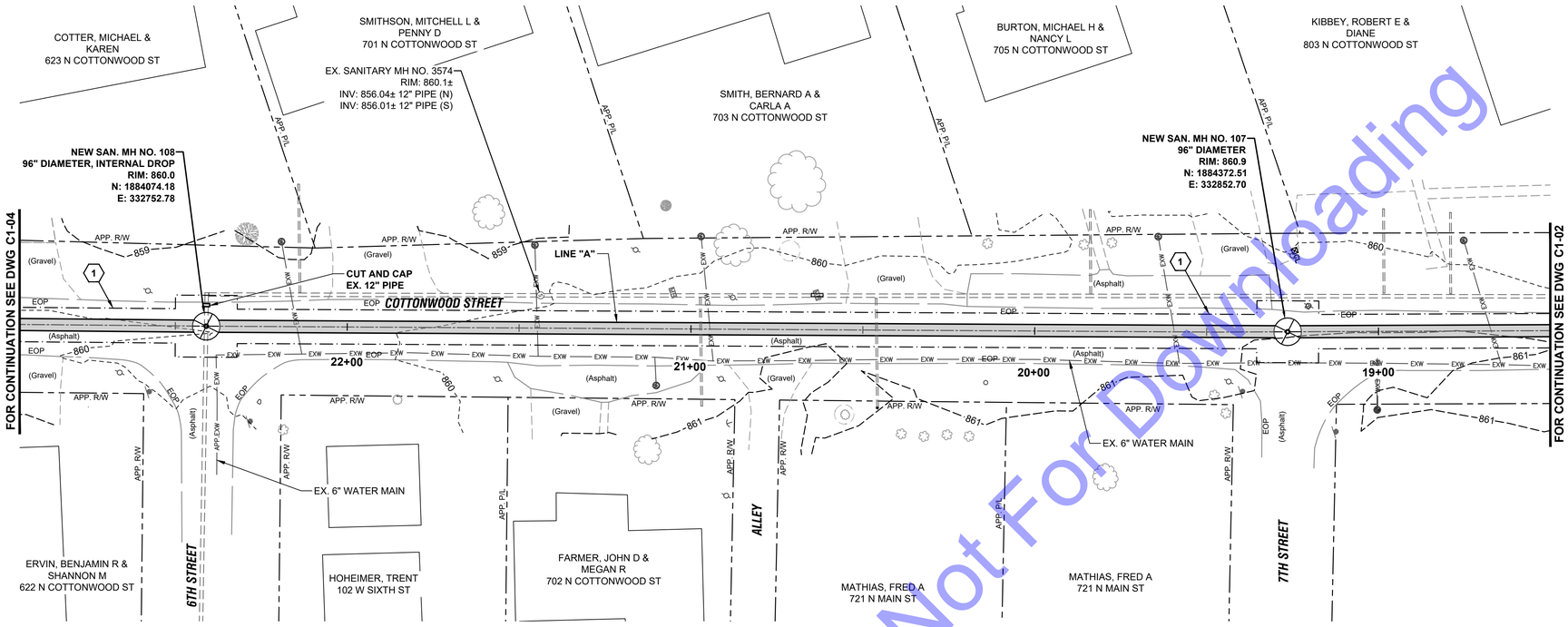
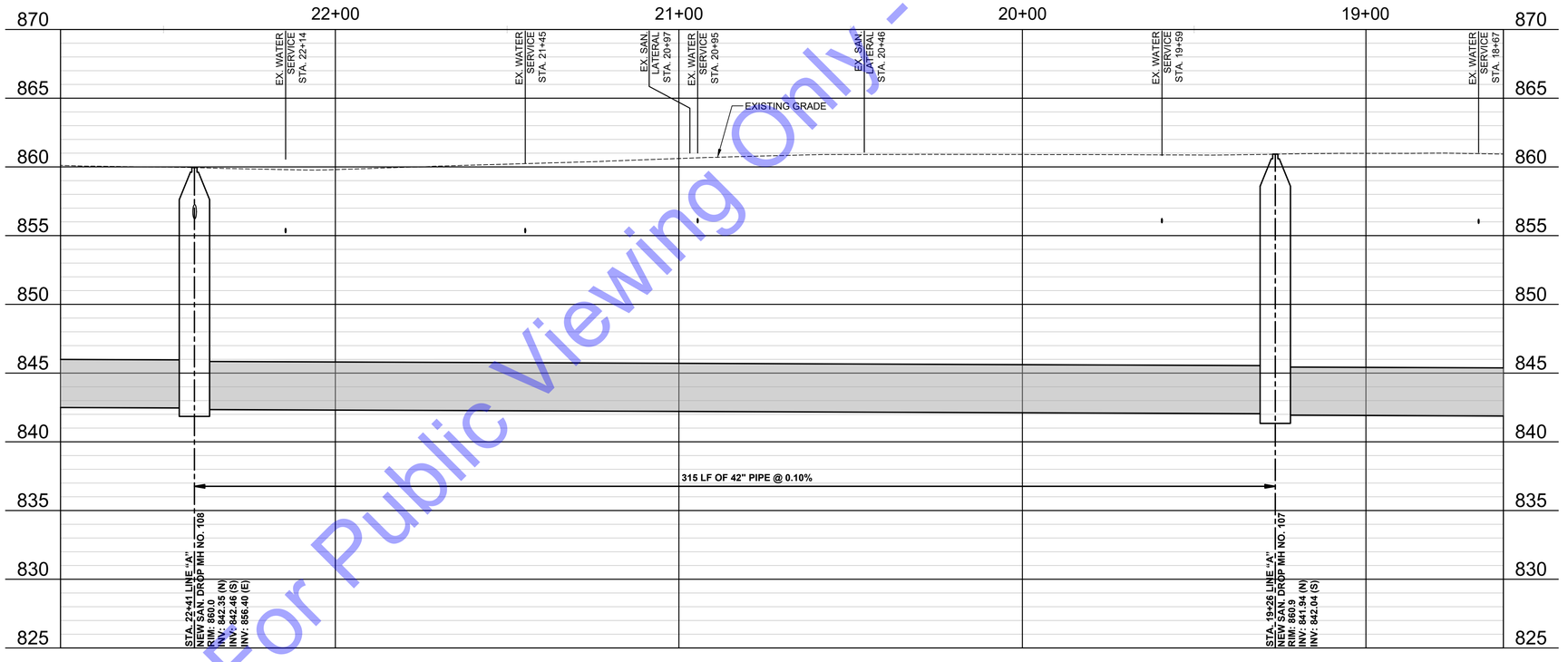


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'

VERTICAL SCALE: 1"=5'
5' 0

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PLAN AND PROFILE VIEWS - LINE "A"

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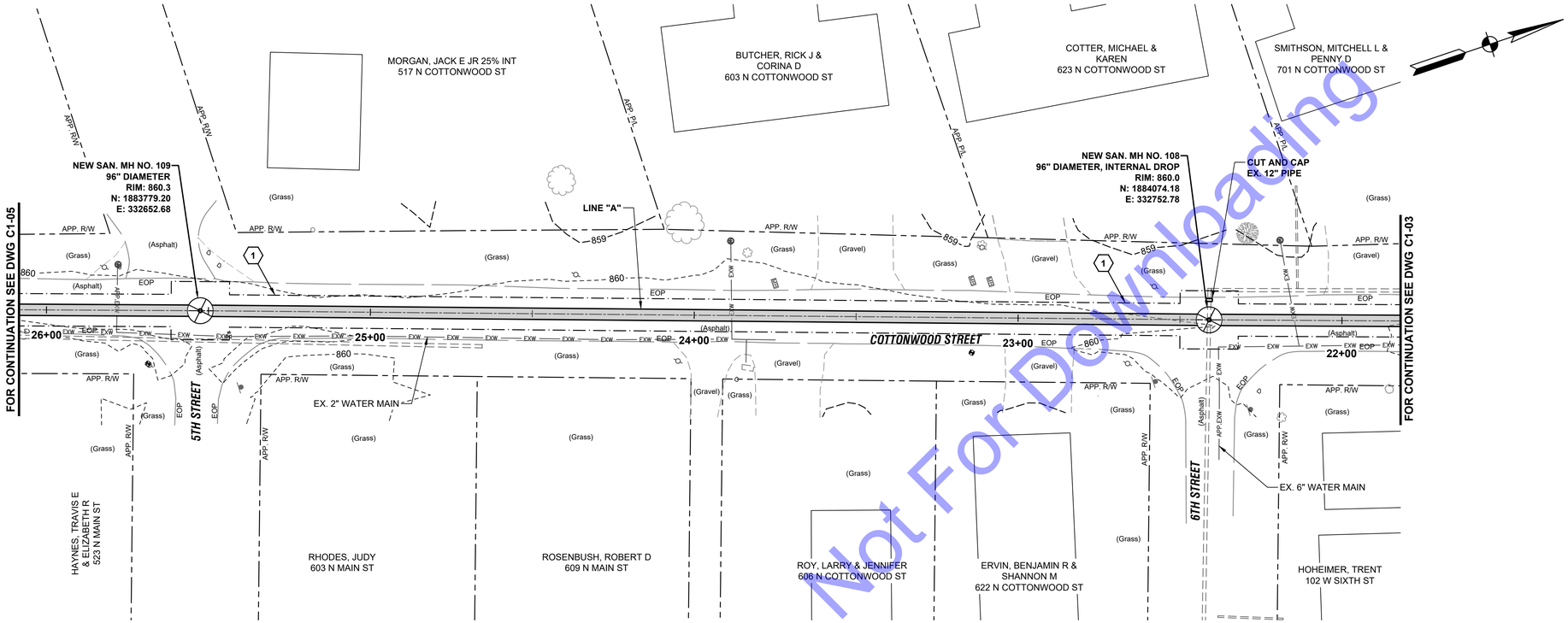

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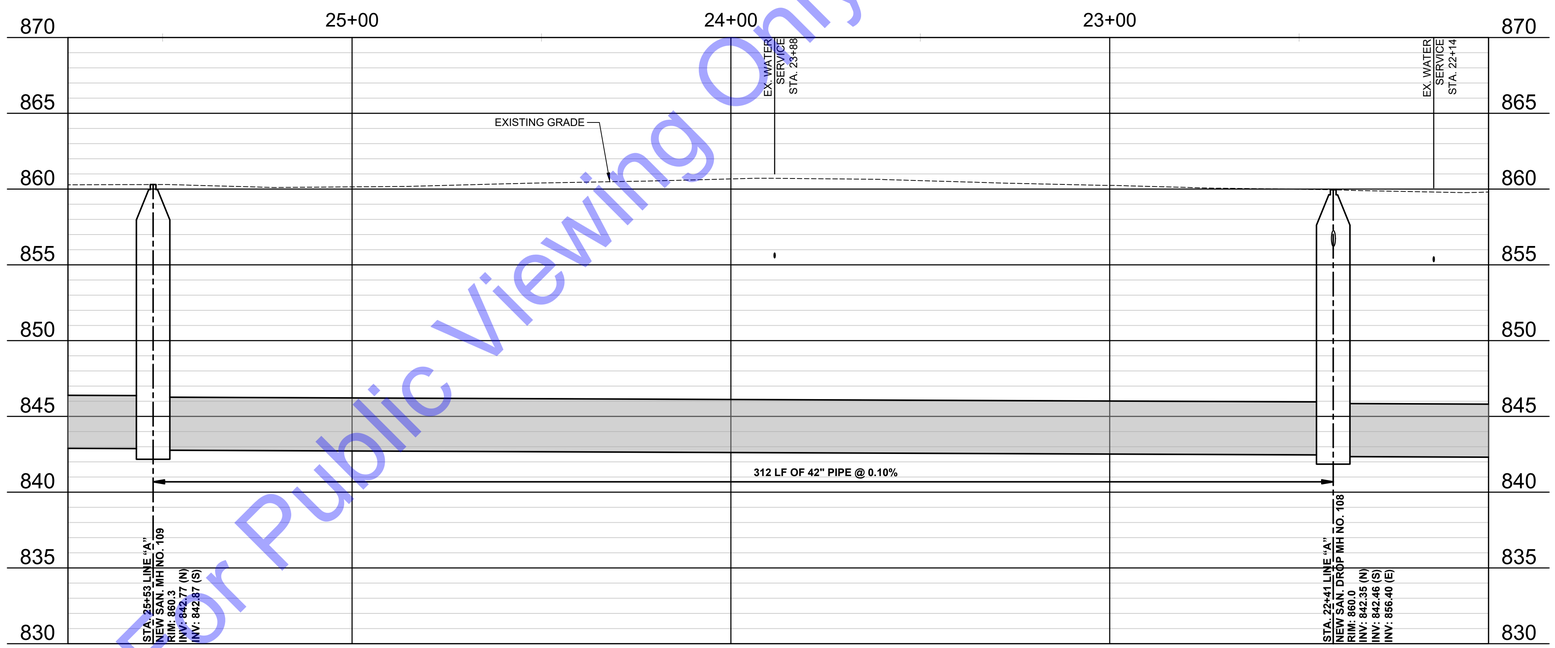

PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-04**
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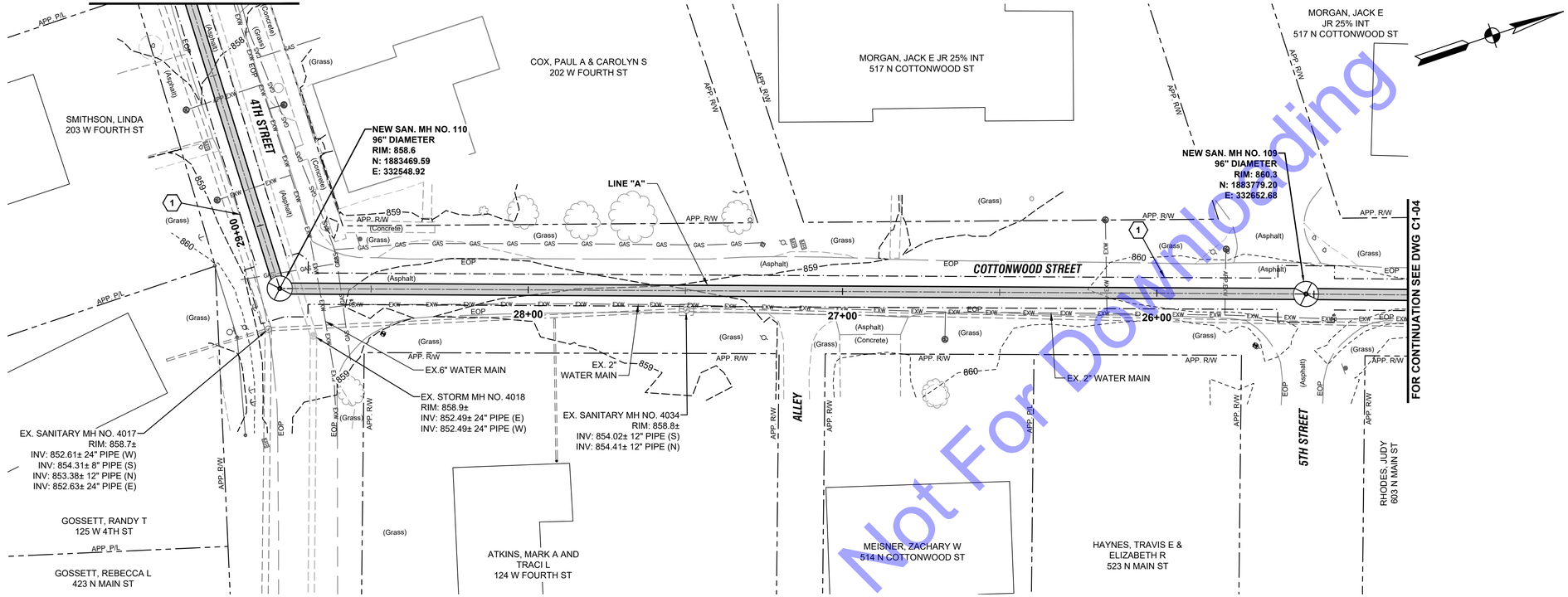

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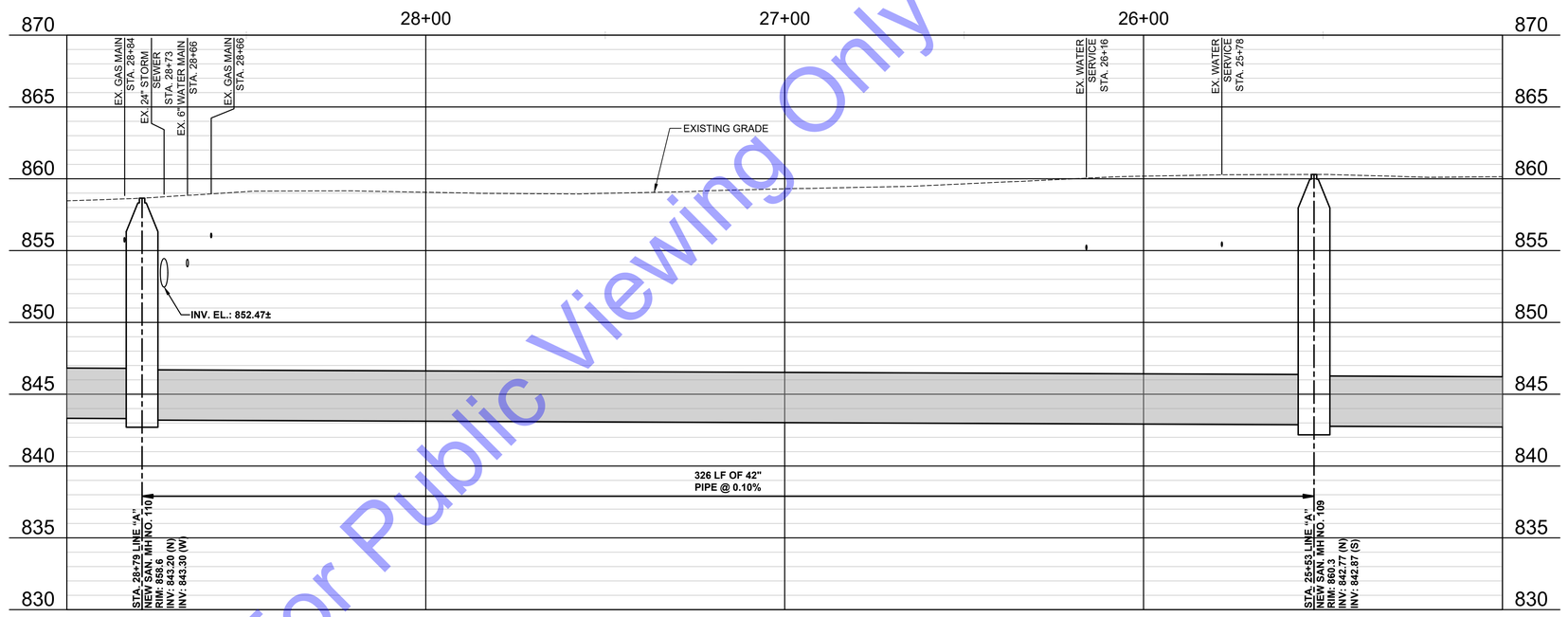

PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. **EXTENT OF EXCAVATION**

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Drawing No: **C1-05**

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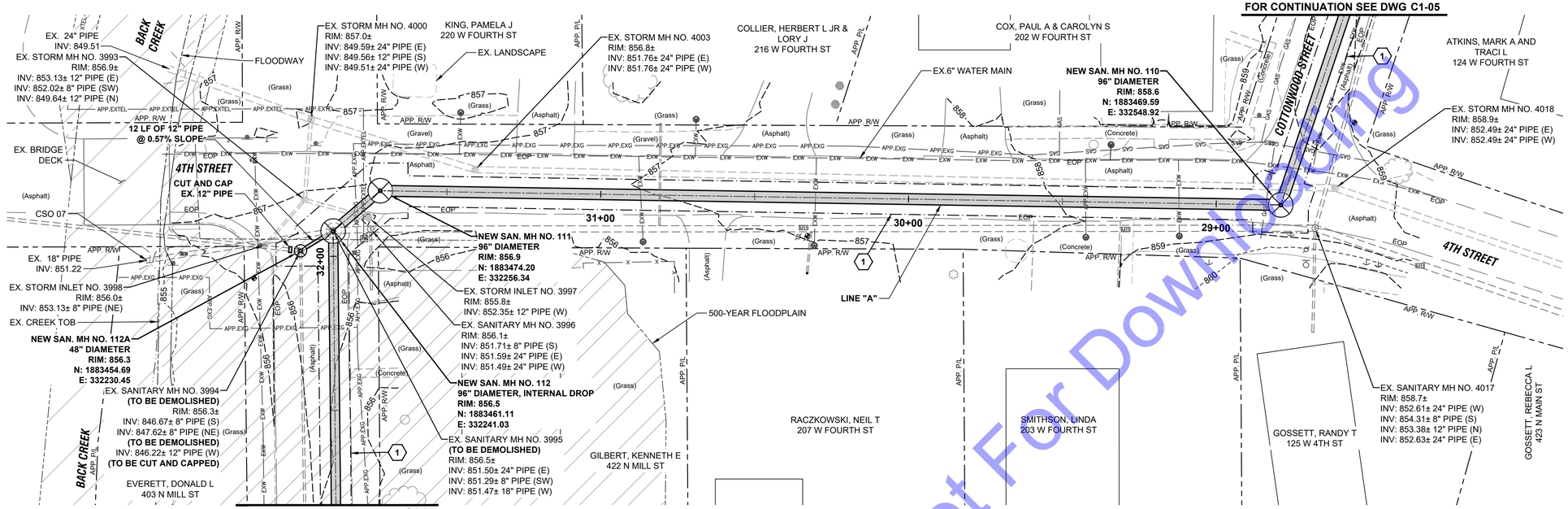
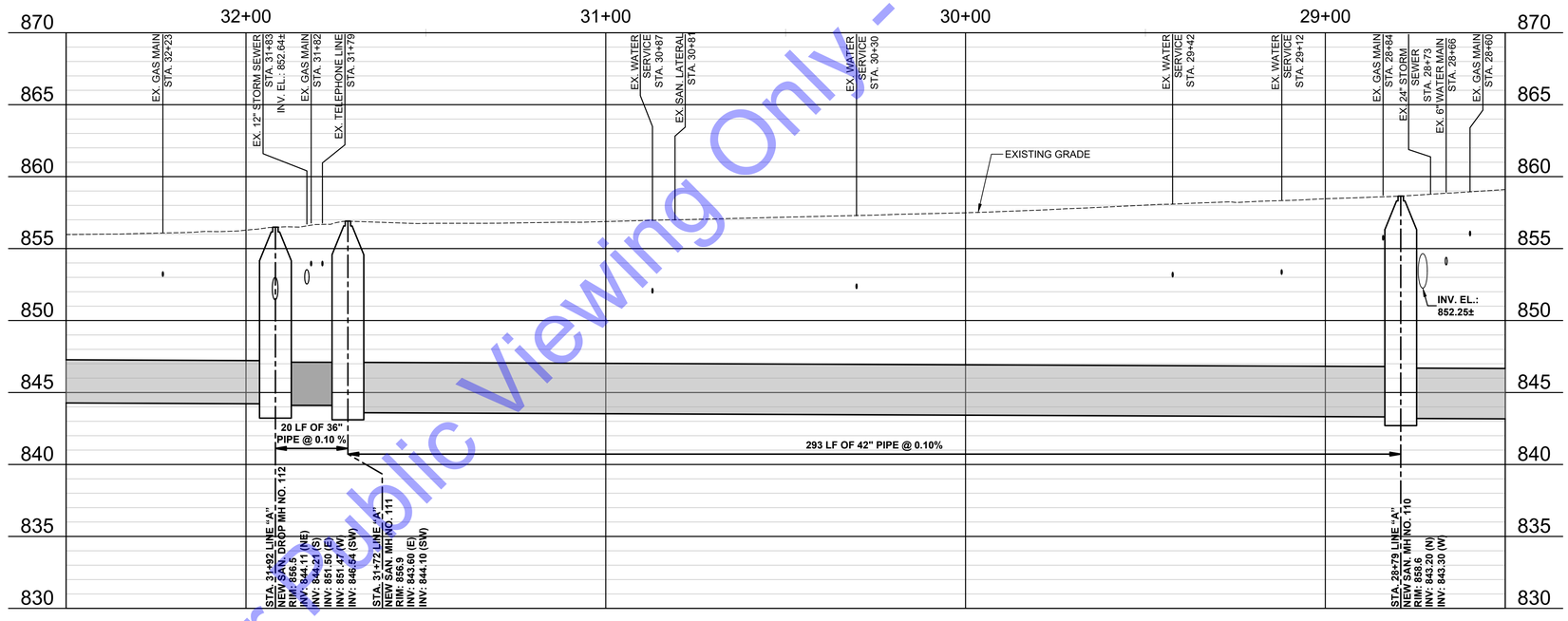


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

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PLAN AND PROFILE VIEWS - LINE "A"

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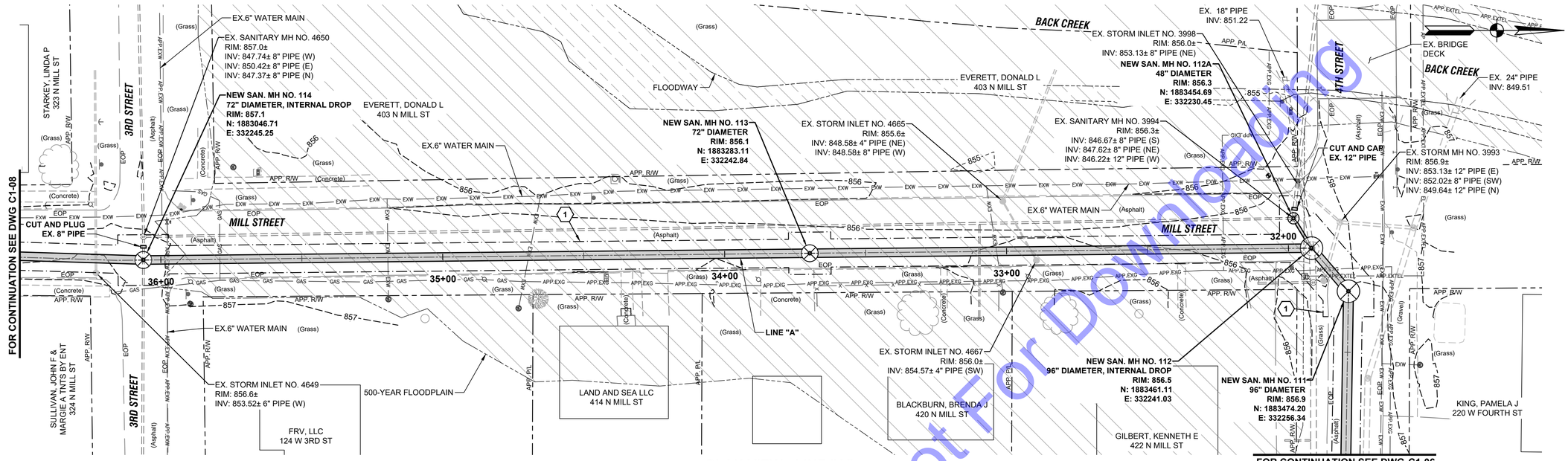
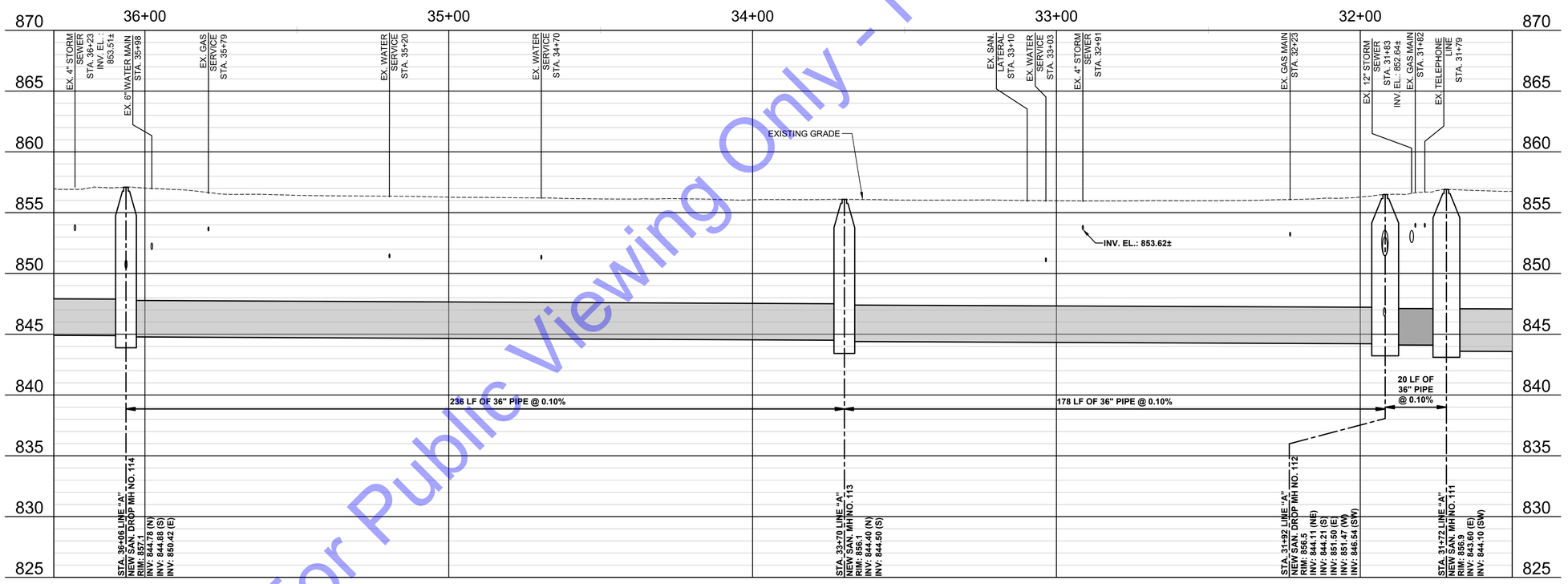


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

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PLAN AND PROFILE VIEWS - LINE "A"

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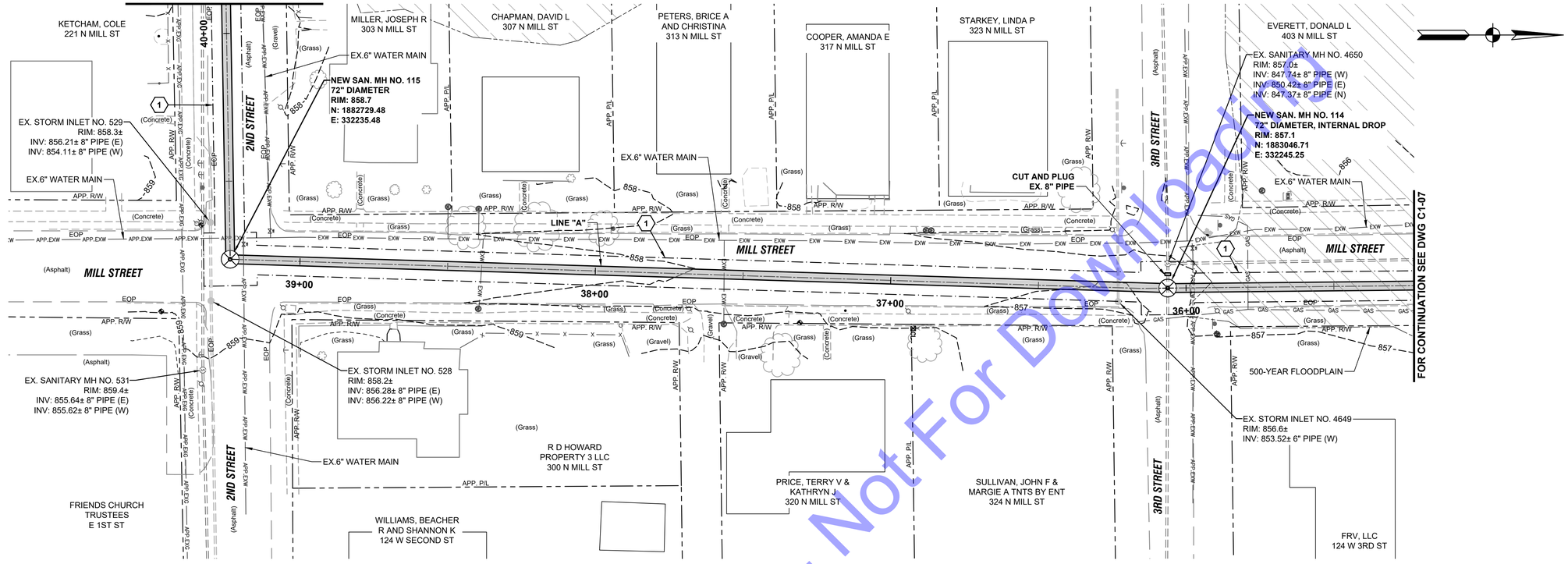

PLAN VIEW - LINE "A"

PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'
VERTICAL SCALE: 1"=5'
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PLAN AND PROFILE VIEWS - LINE "A"

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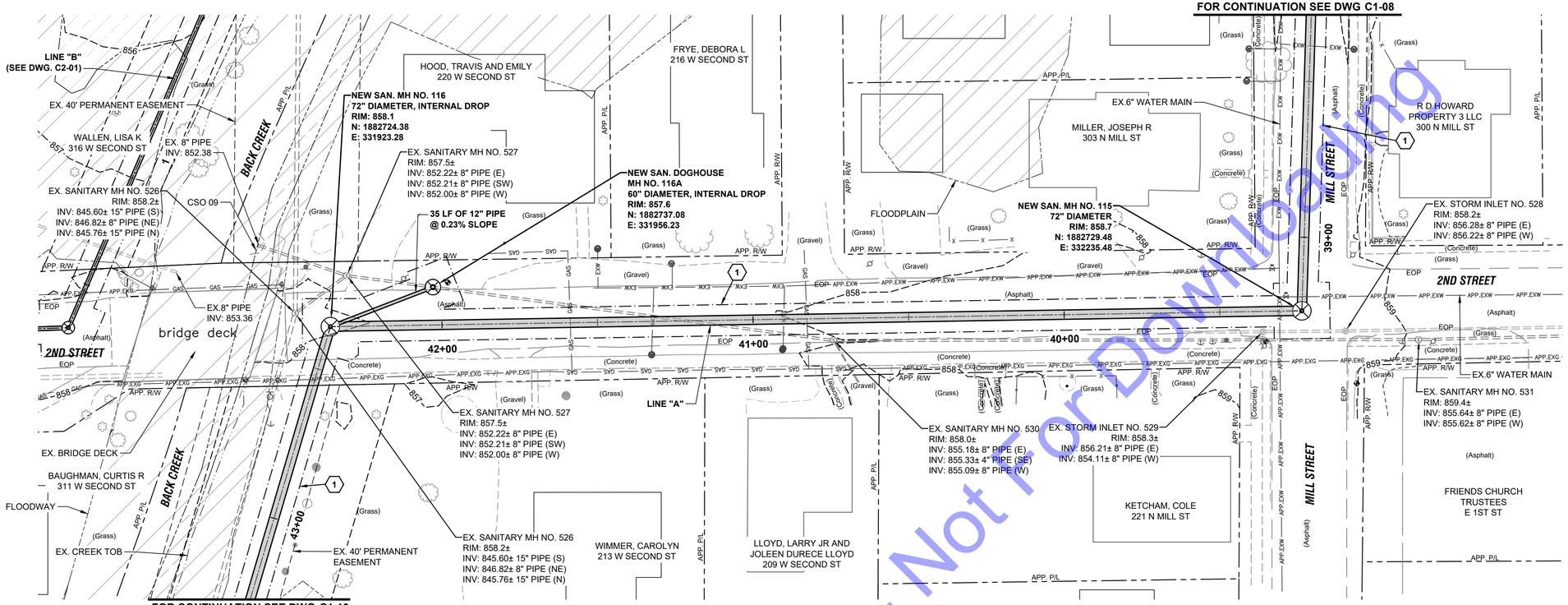
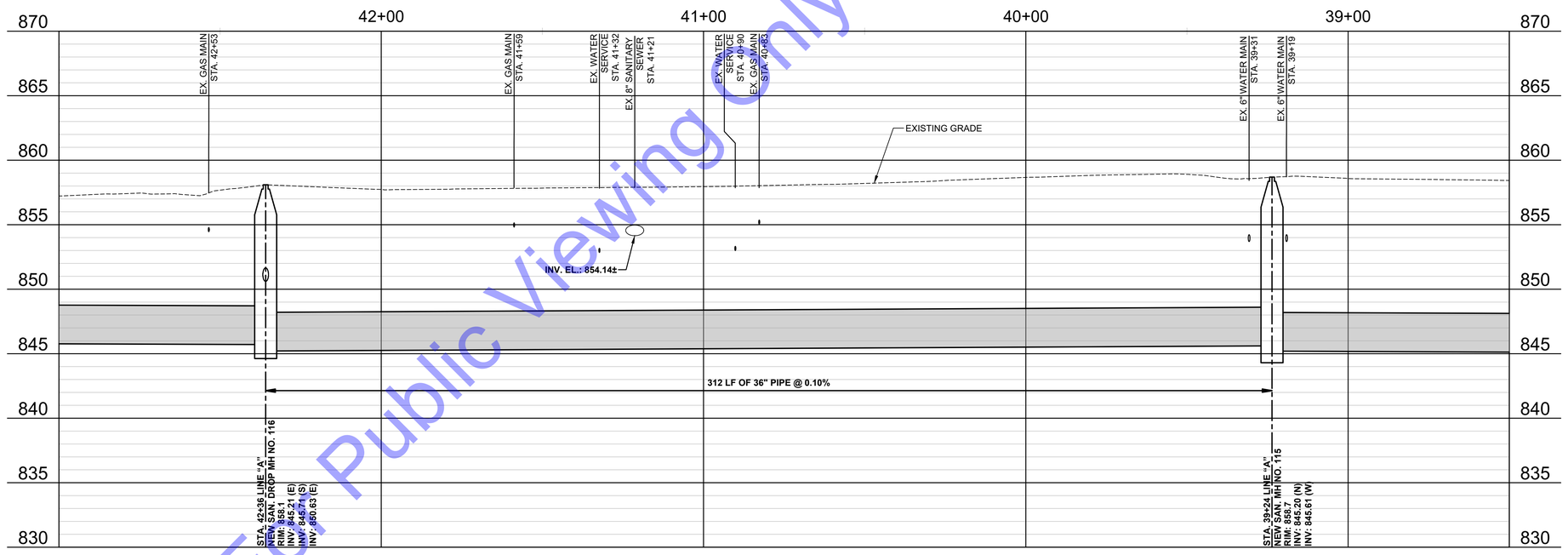


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

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VERTICAL SCALE: 1"=5'

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PLAN AND PROFILE
VIEWS - LINE "A"

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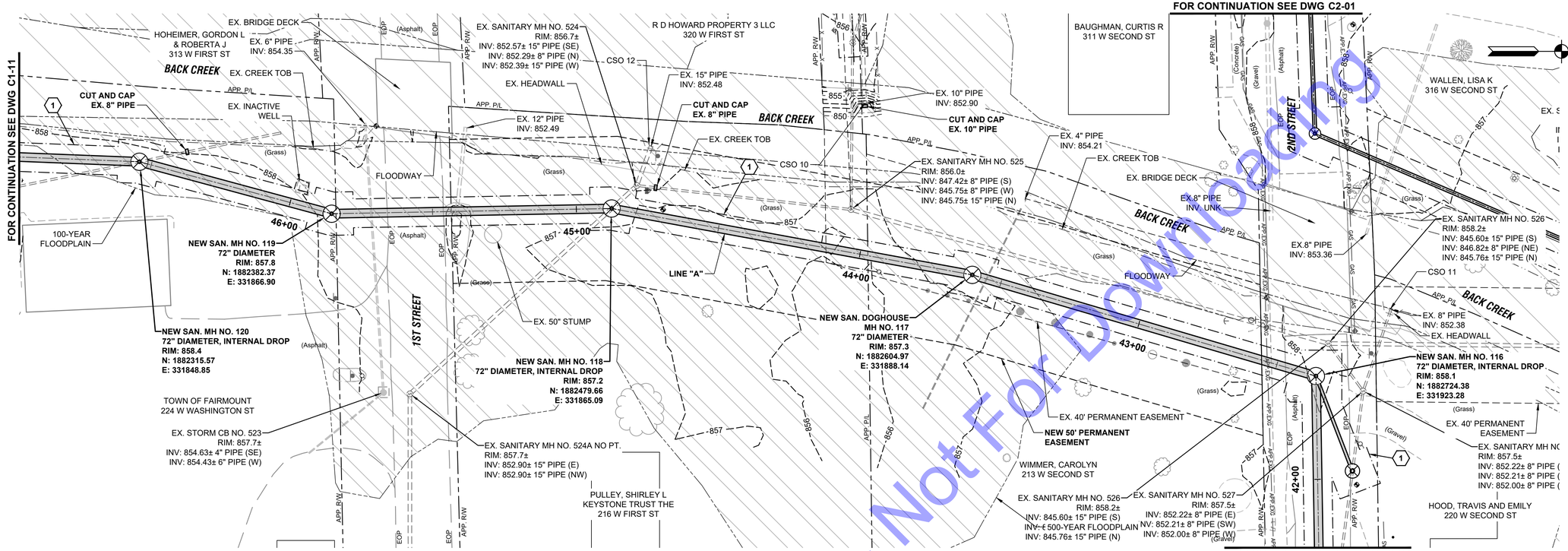

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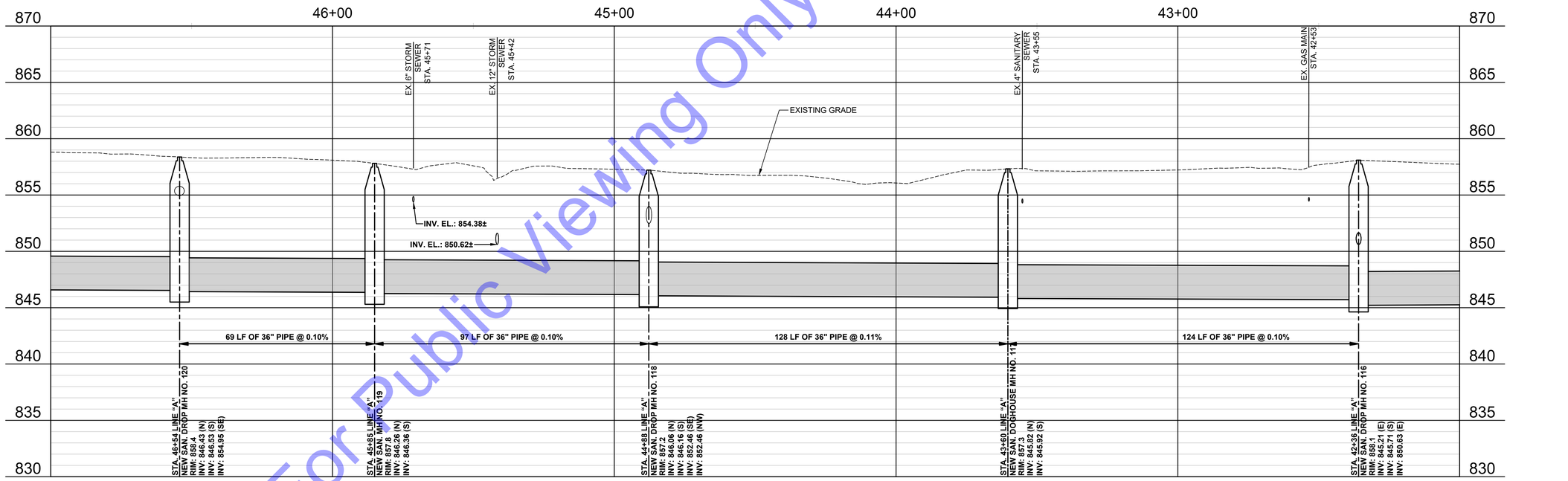

PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

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VERTICAL SCALE: 1"=5'

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-10**

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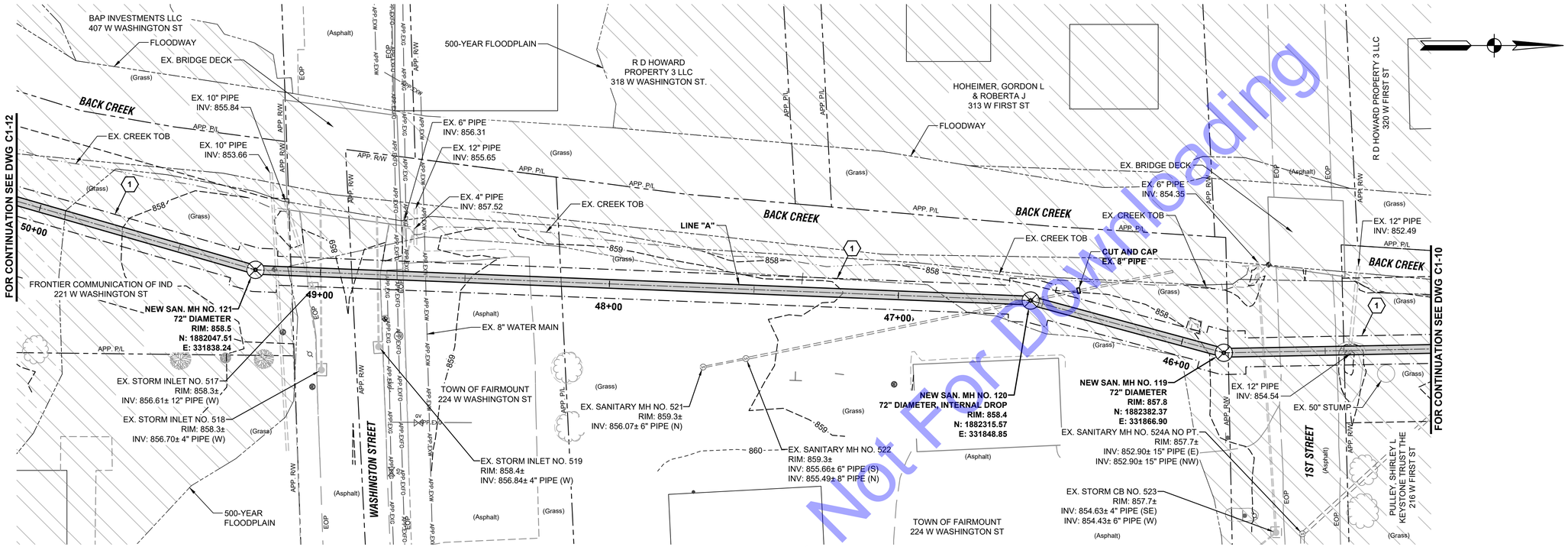
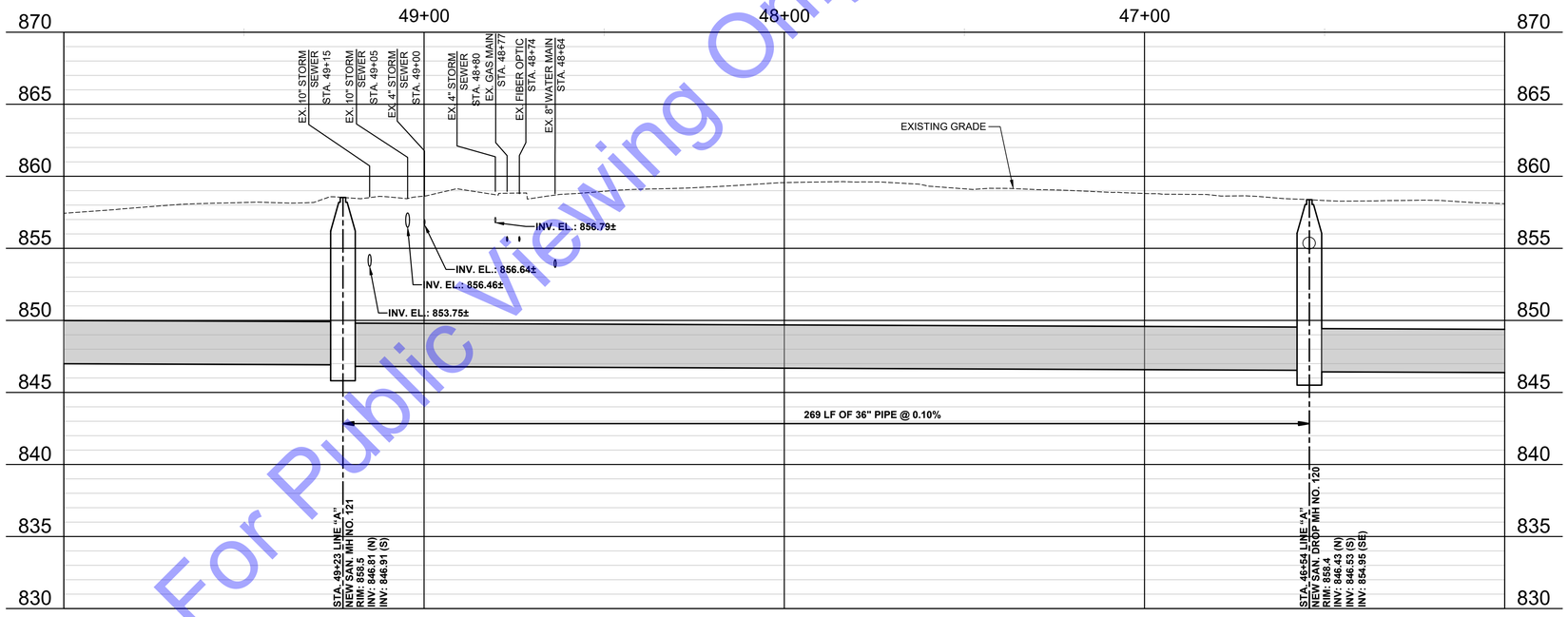


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-11**

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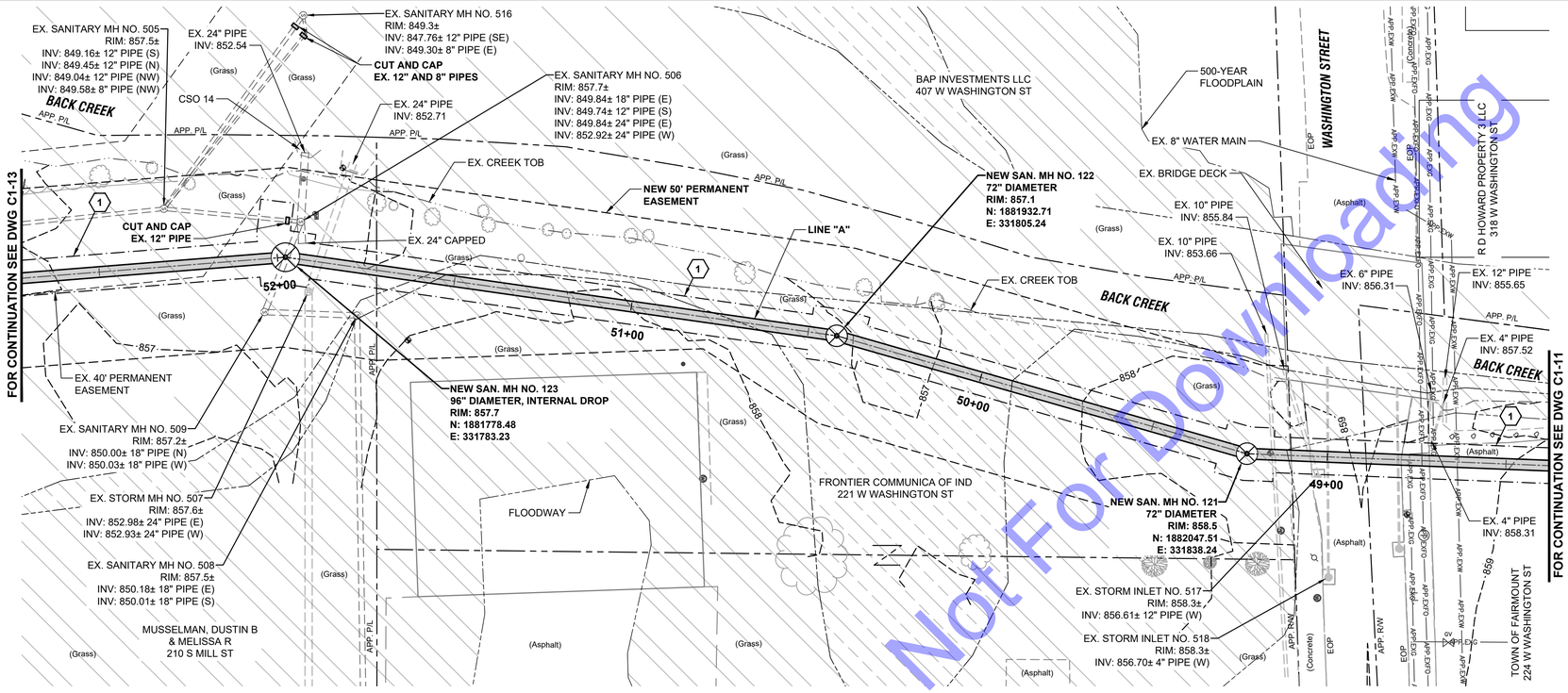

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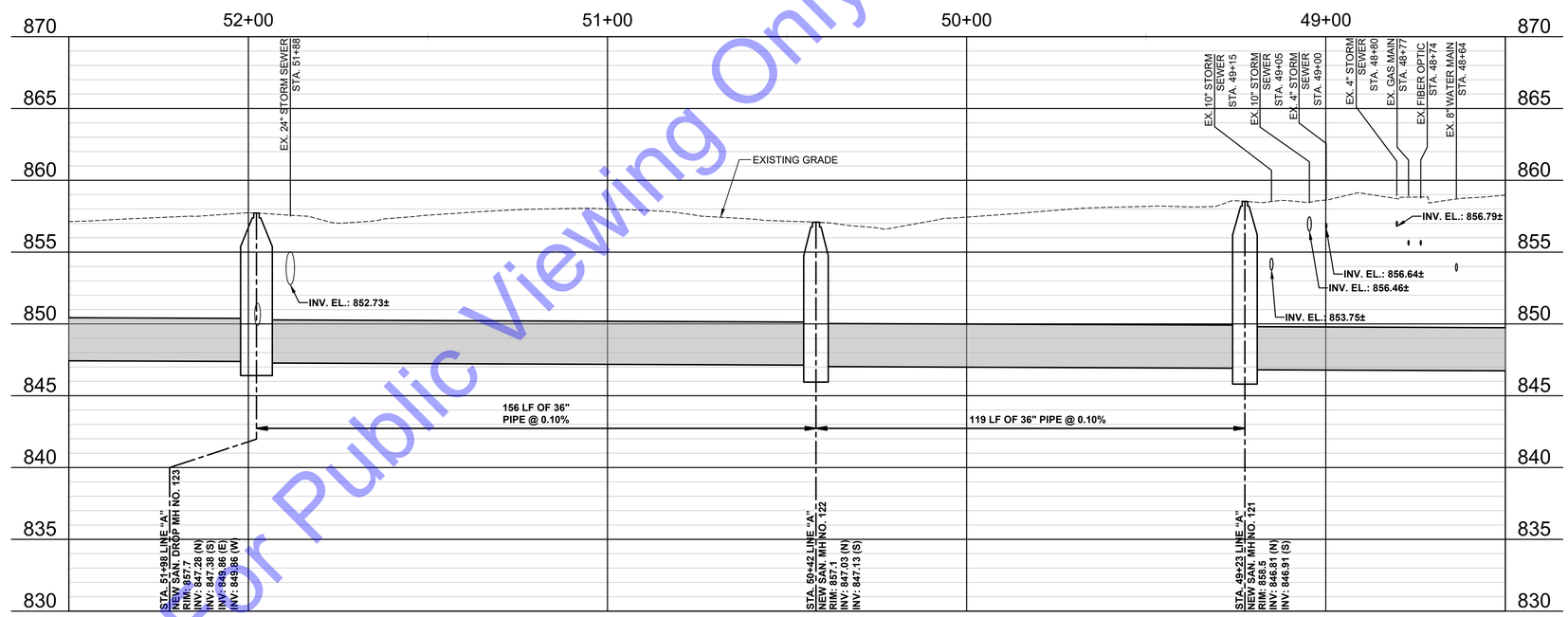

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ROBERT M. BELLUCCI
REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

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GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP
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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-12**

Sheet: 17 OF 57

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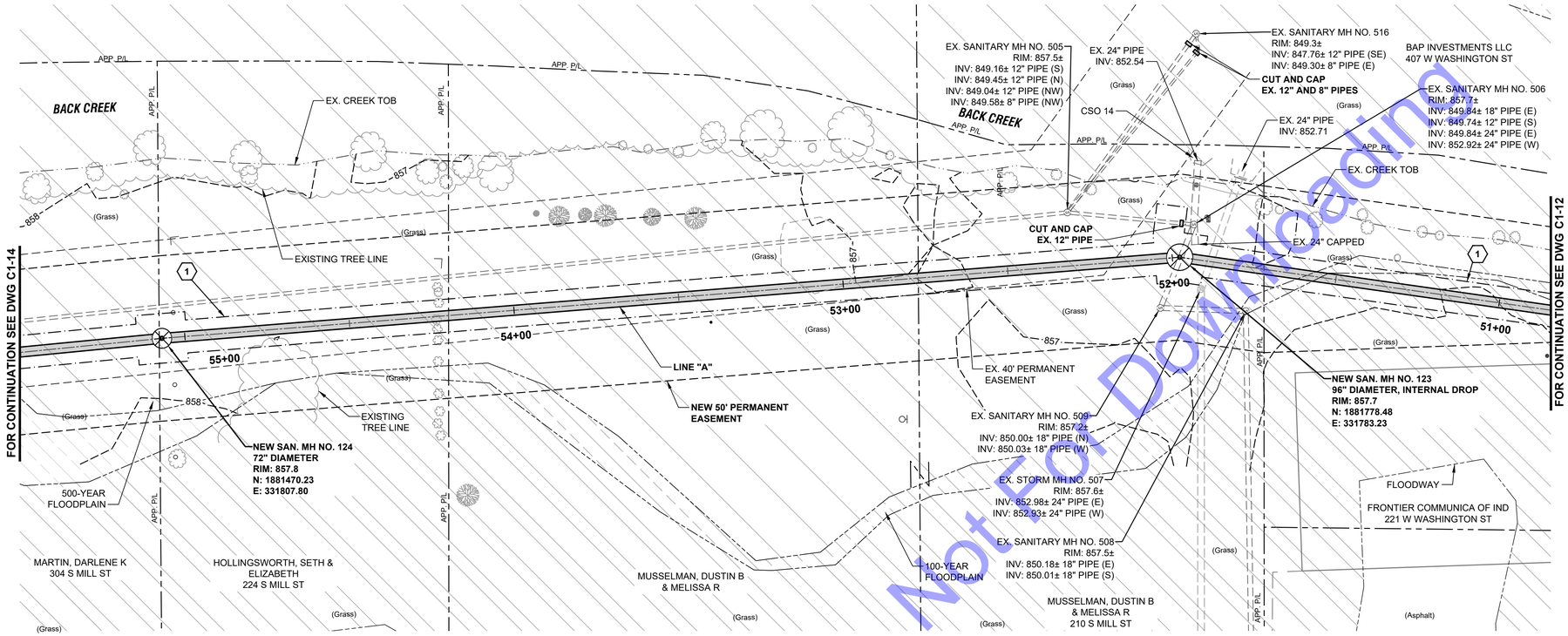
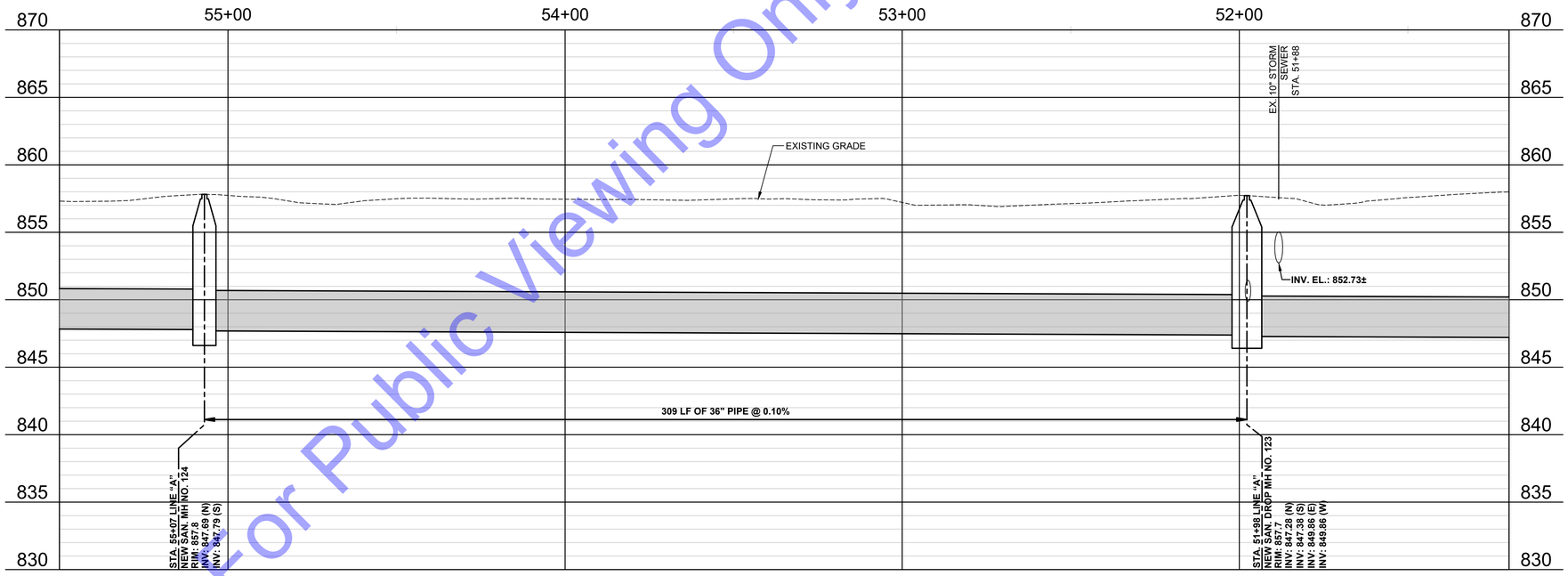


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'
VERTICAL SCALE: 1"=5'
0 5'

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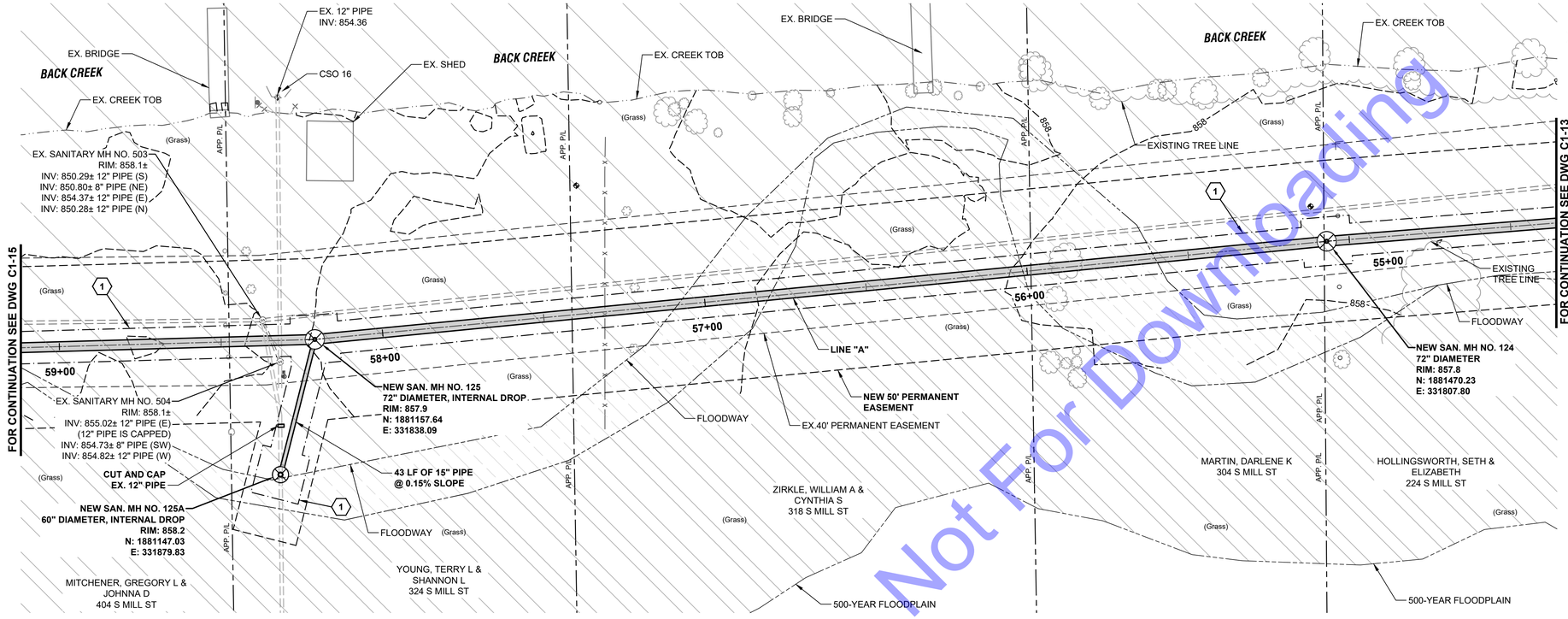
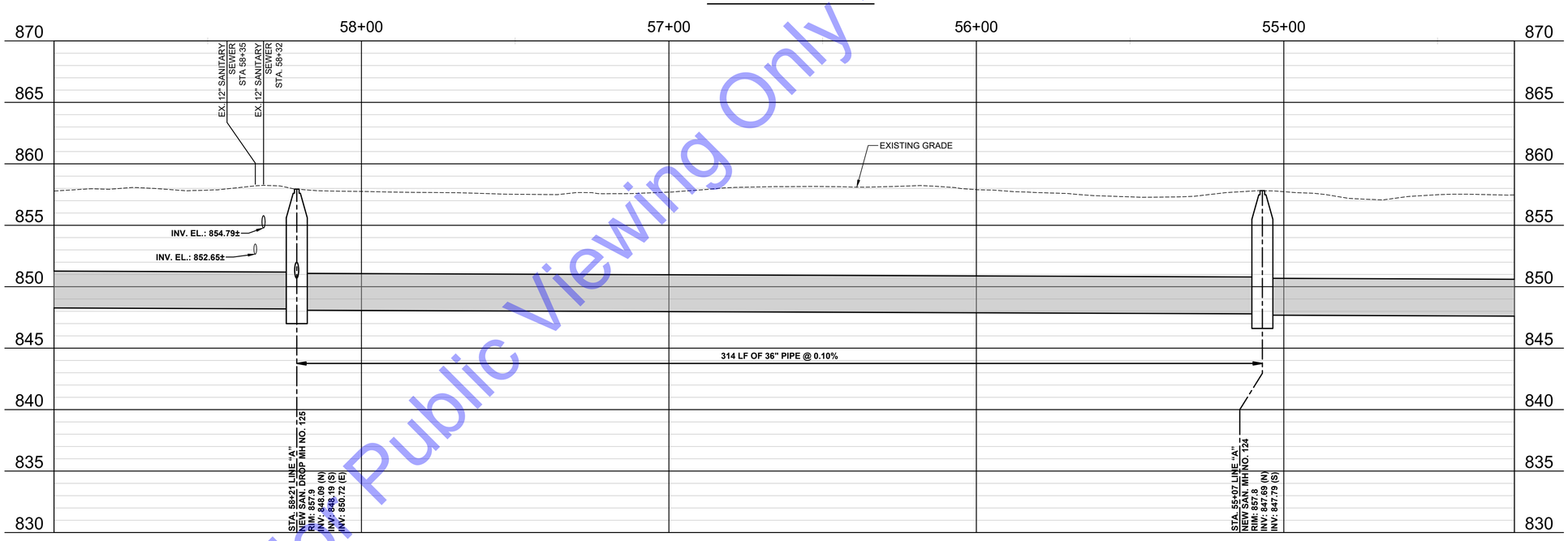
PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-13**

Sheet: 18 OF 57



PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'
VERTICAL SCALE: 1"=5'
5' 0

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-14**

Sheet: 19 OF 57

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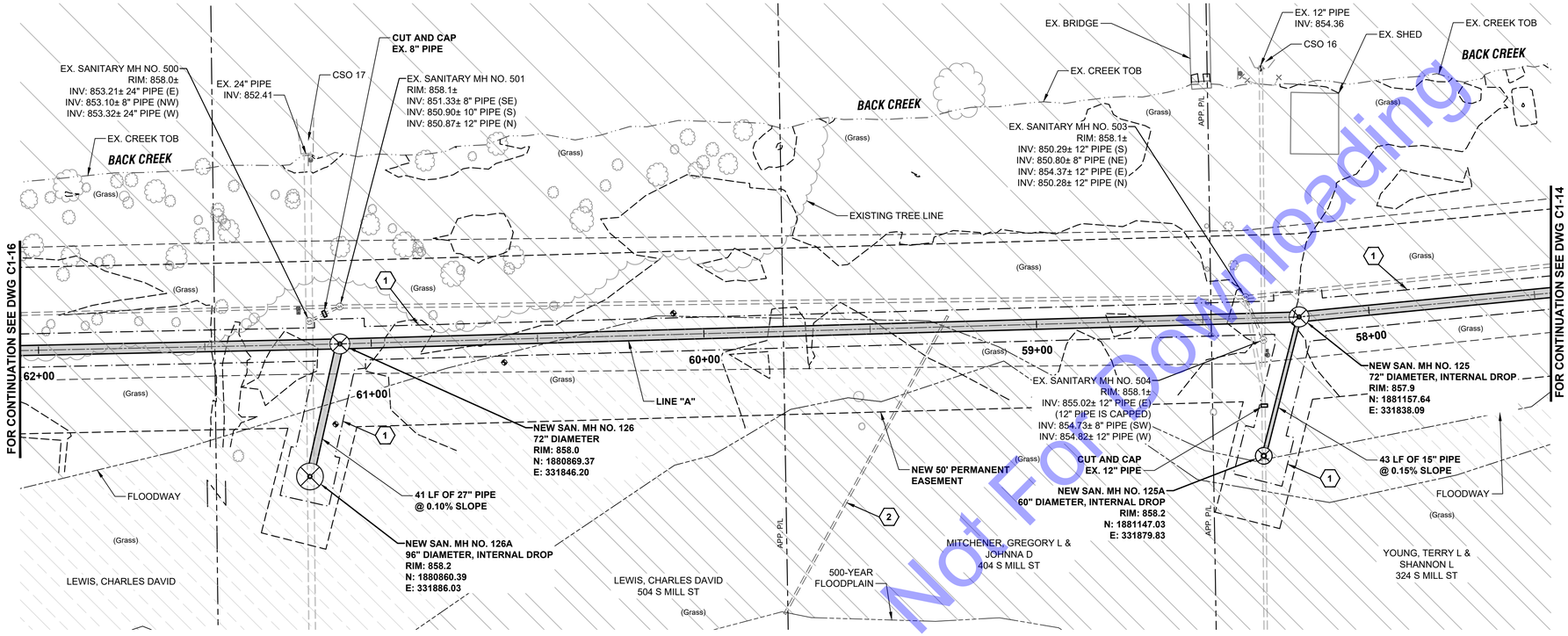
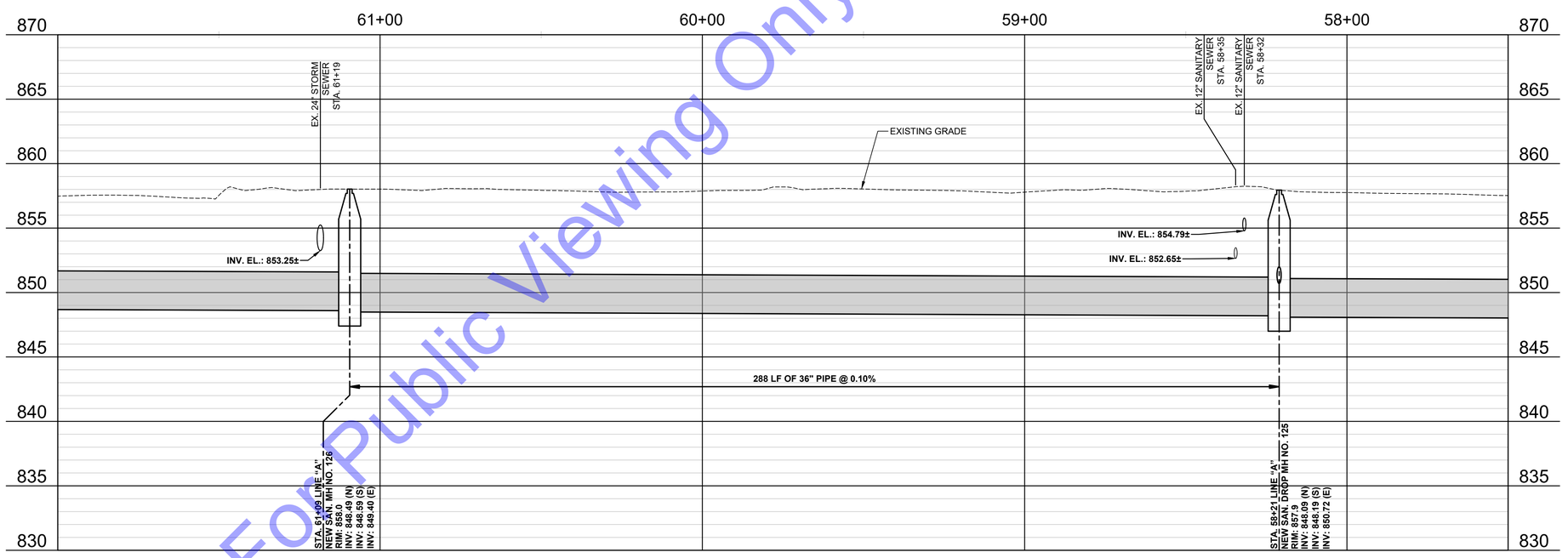


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION
2. POTENTIAL LOCATION OF UNKNOWN SEWER LINE

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'
VERTICAL SCALE: 1"=5'
5' 0

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No: **C1-15**

Sheet: 20 OF 57

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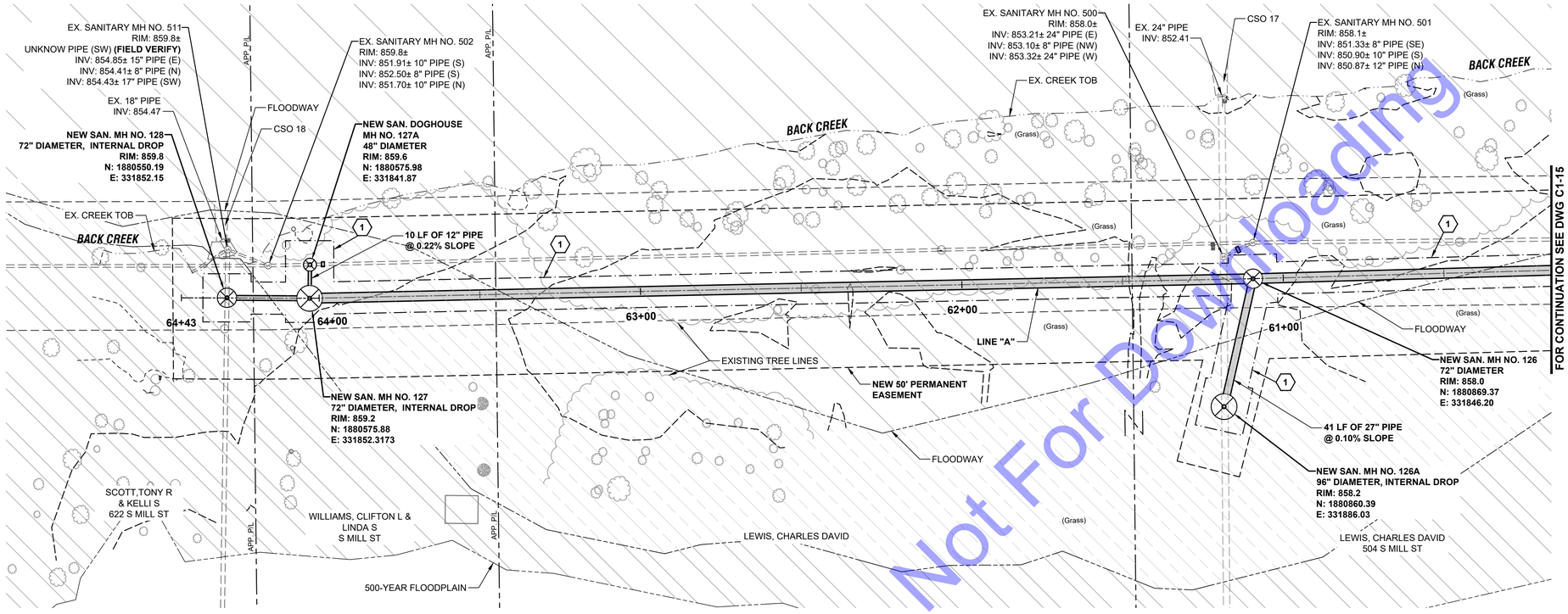
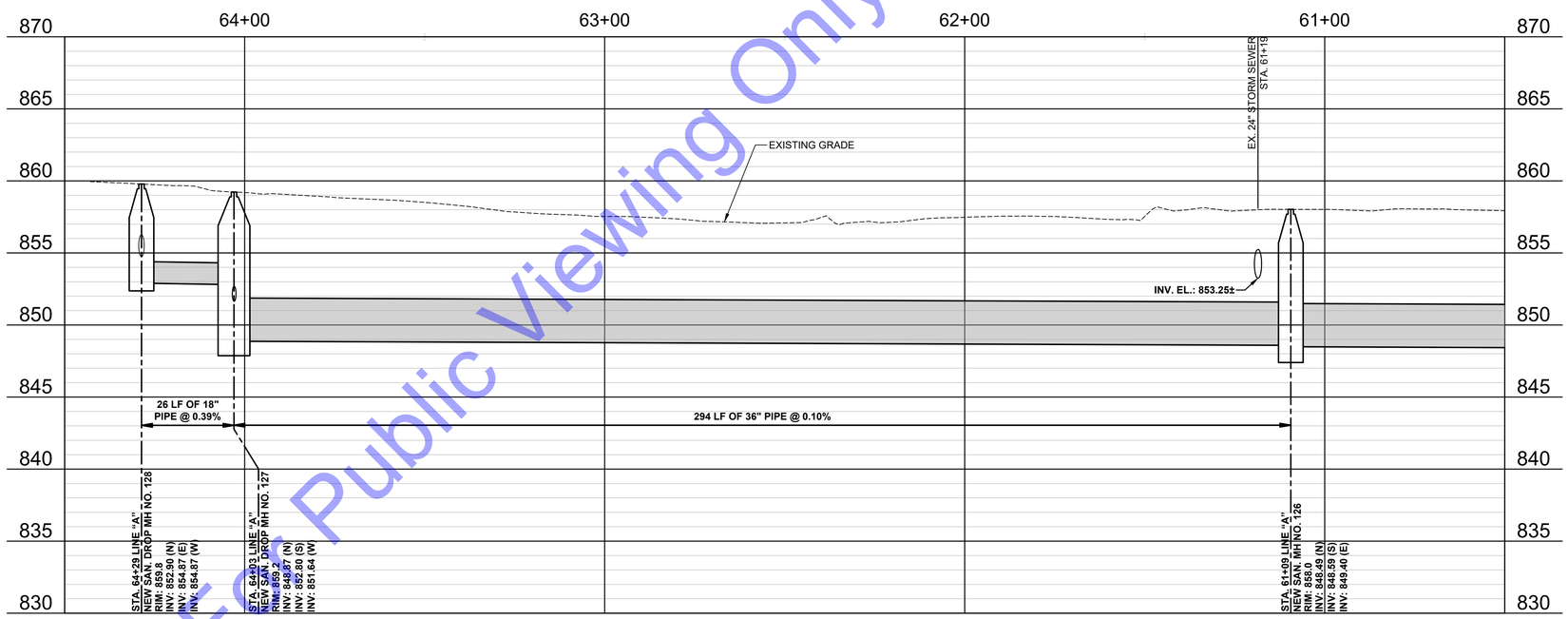


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'
VERTICAL SCALE: 1"=5'
5' 0

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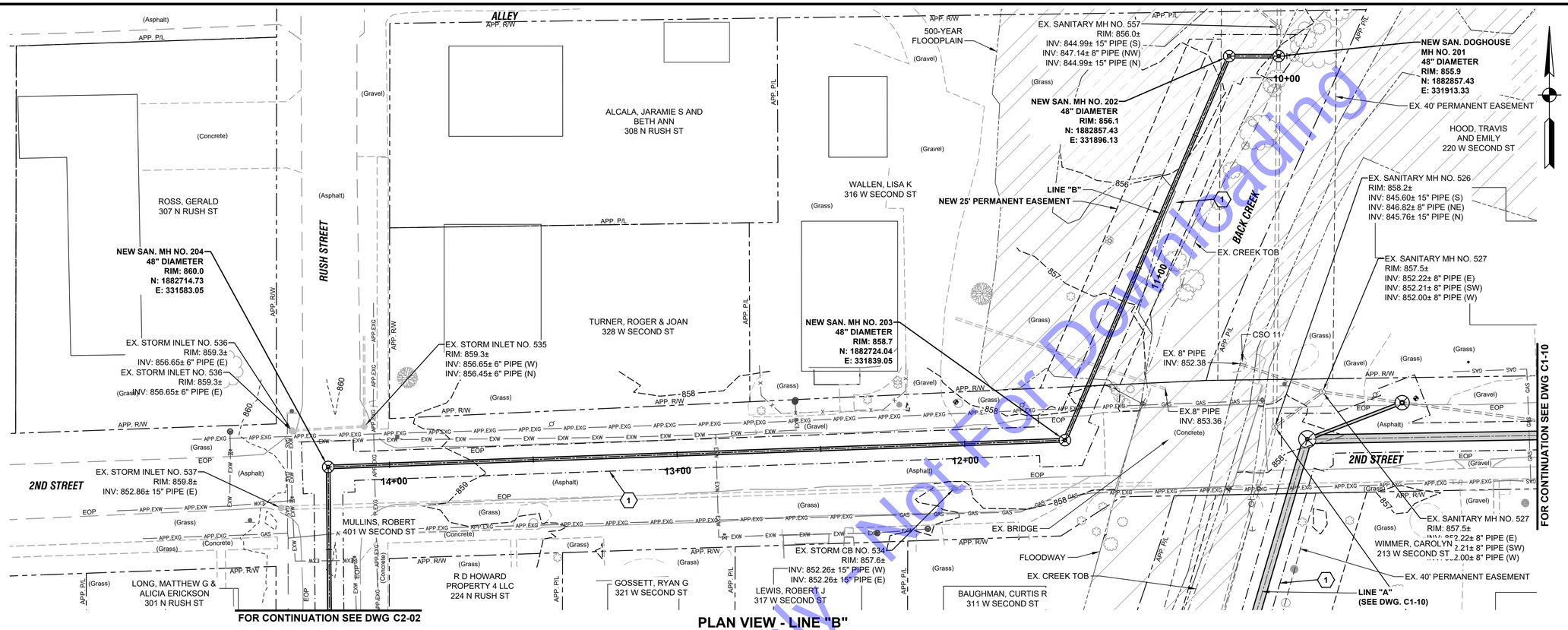
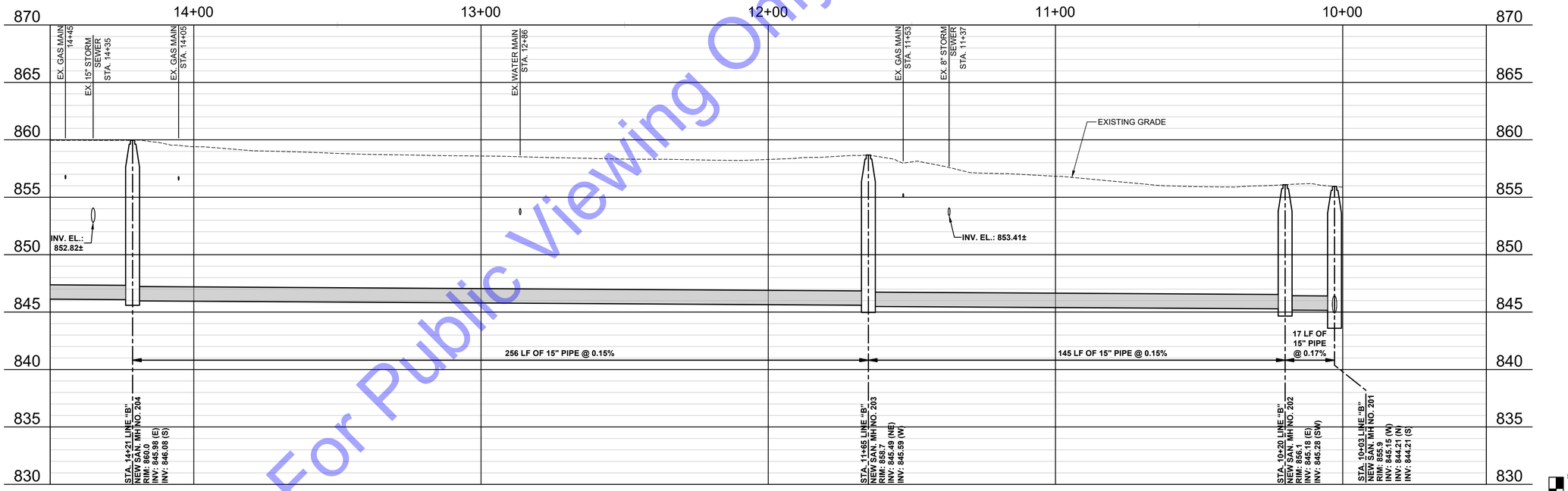
PLAN AND PROFILE
VIEWS - LINE "A"

Drawing No:
C1-16
Sheet: 21 OF 57



PLAN VIEW - LINE "B"



PROFILE VIEW - LINE "B"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

HORIZONTAL SCALE: 1" = 20'-0"
0 10' 20' 40' 60'

VERTICAL SCALE: 1"=5'
5' 0

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MANDATORY ALTERNATE - PLAN AND PROFILE VIEWS - LINE "B"

Drawing No:
C2-01
Sheet: 22 OF 57

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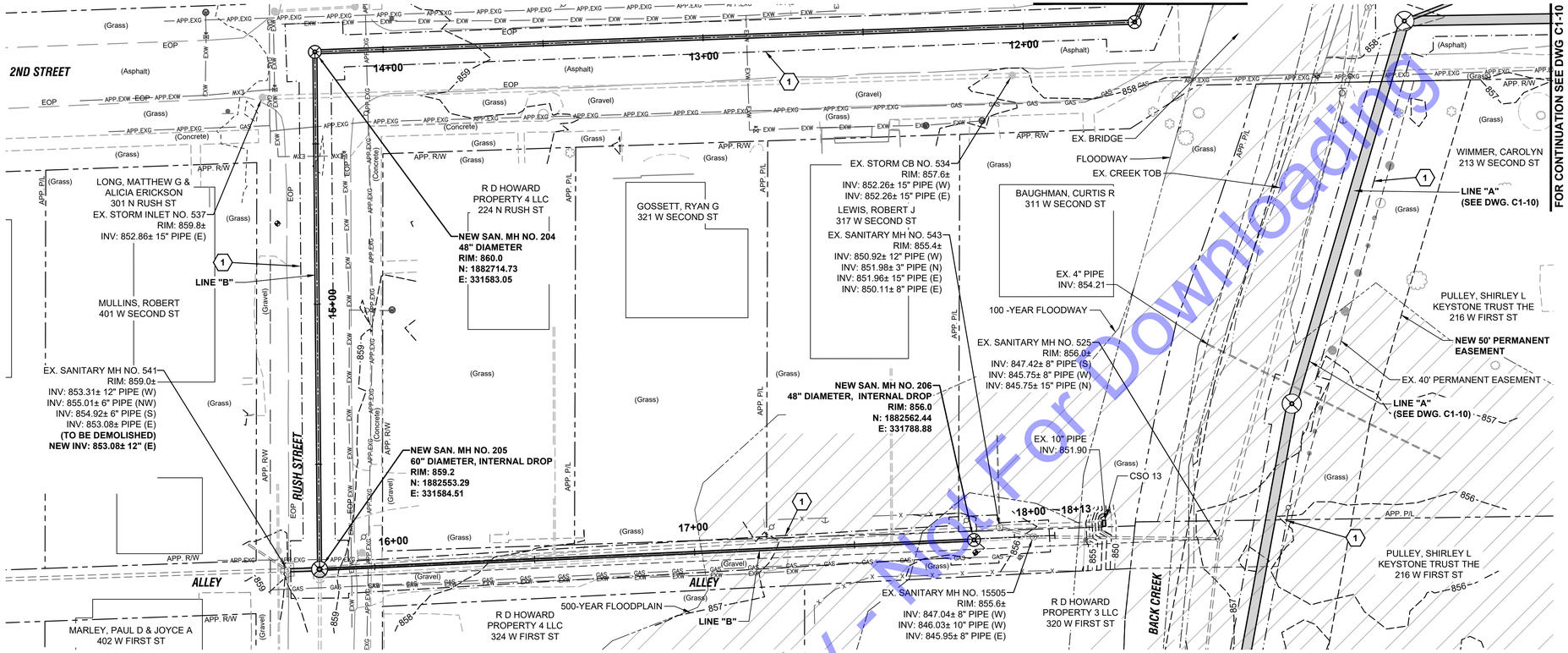
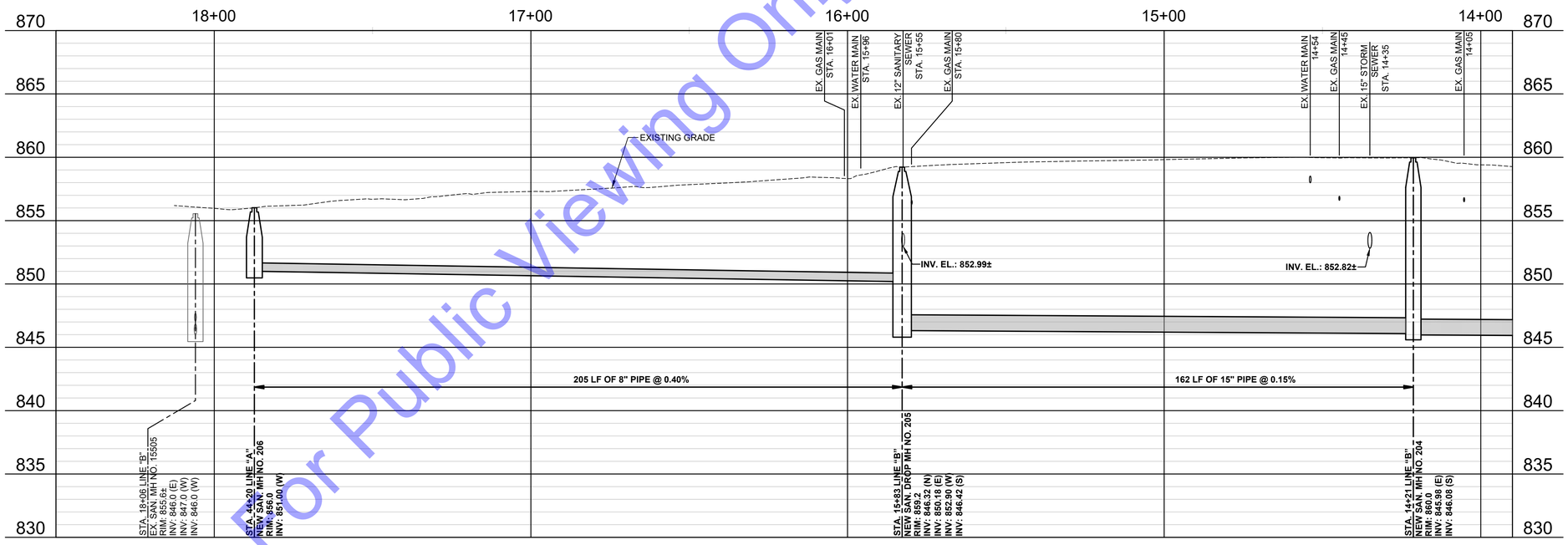


PLAN VIEW - LINE "B"



PROFILE VIEW - LINE "B"

CODED KEYNOTES:

1. EXTENT OF EXCAVATION

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VERTICAL SCALE: 1"=5'
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MANDATORY ALTERNATE - PLAN AND PROFILE VIEWS - LINE "B"

Drawing No: **C2-02**

Sheet: 23 OF 57

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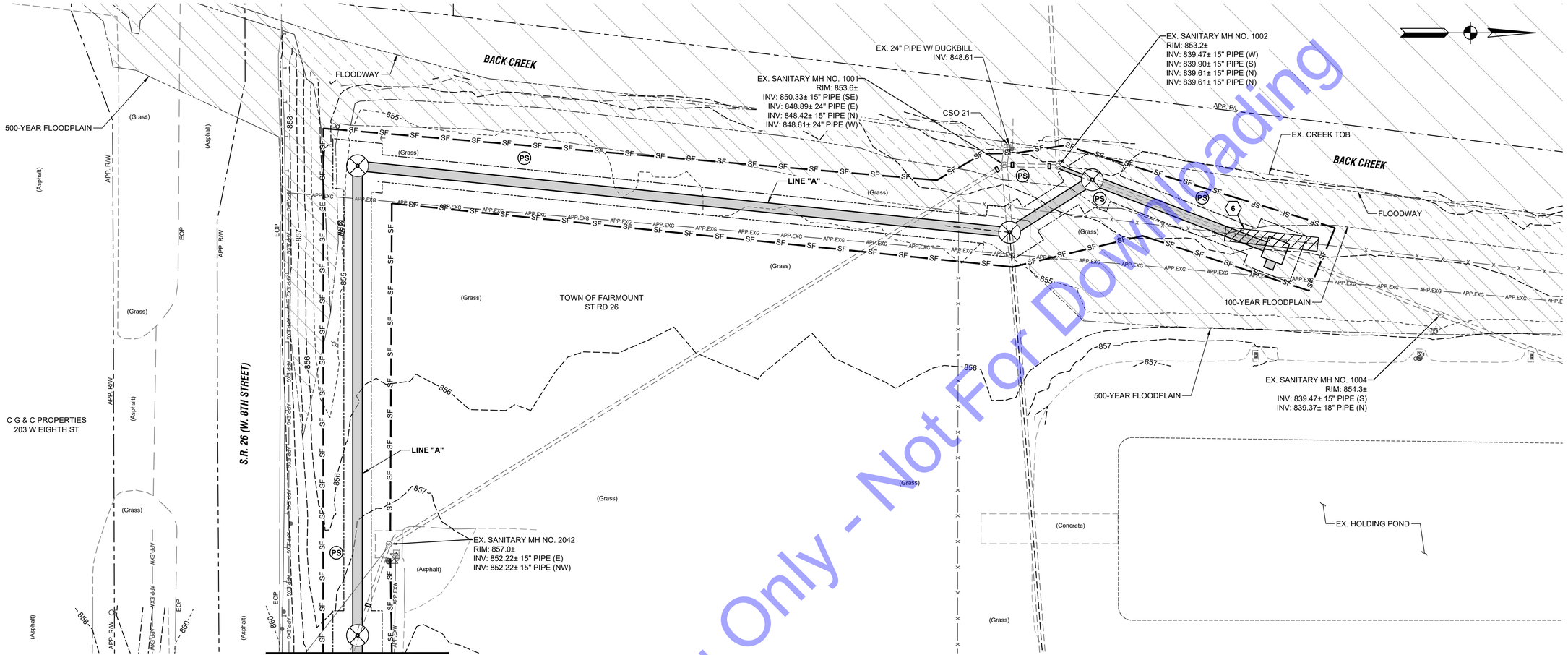

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD08).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD08).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD08).
4. MILL (2-INCH) EXISTING ASPHALT PAVEMENT AND RESURFACE ASPHALT PAVEMENT (2-INCH) (SEE DETAIL, DWG MD08).
5. REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD11).
6. REMOVE EXISTING CHAINLINK FENCE (SEE DWG. MD08)
7. DEMOLISH EXISTING TREES

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS SPECIFIED IN THE DETAILED SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO CONCRETE WASHOUT STATIONS, TEMPORARY CONSTRUCTION ENTRANCES, TEMPORARY SEEDING, ETC. AS REQUIRED DURING THE DURATION OF THE PROJECT TO MAINTAIN COMPLIANCE WITH THE GENERAL STORM WATER CONSTRUCTION PERMIT. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE GENERAL STORM WATER CONSTRUCTION PERMIT, INCLUDING PROVIDING REQUIRED NOTIFICATIONS TO THE REQUIRED AGENCIES.
2. SEE DWG. EC4 FOR EROSION CONTROL DETAILS.

LEGEND:

- (IP) STORM INLET PROTECTION
- (PS) PERMANENT SEEDING
- SF SILT FENCE

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DEMOLITION AND EROSION CONTROL PLAN VIEW - LINE "A"

Drawing No: **DR01**

Sheet: 24 OF 57

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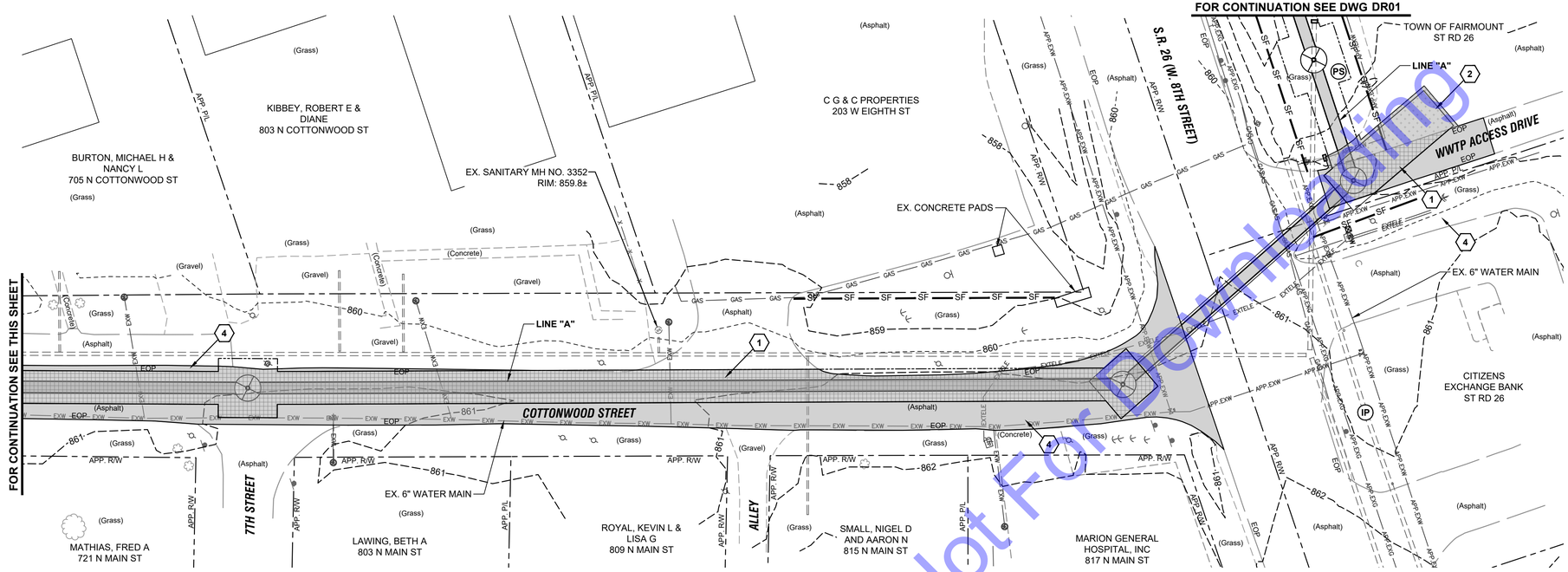

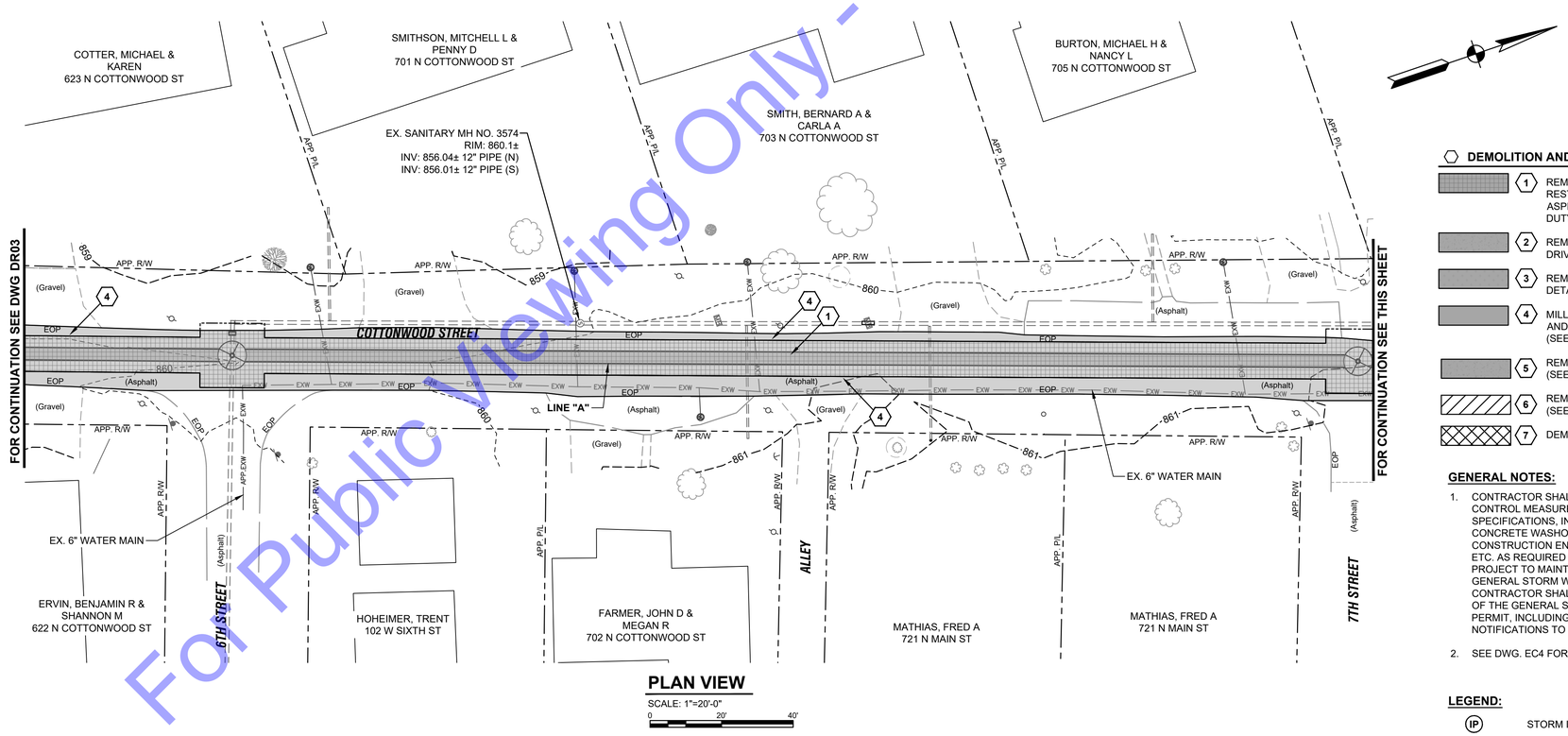

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD08).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD08).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD08).
4. MILL (2-INCH) EXISTING ASPHALT PAVEMENT AND RESURFACE ASPHALT PAVEMENT (2-INCH) (SEE DETAIL, DWG MD08).
5. REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD11).
6. REMOVE EXISTING CHAINLINK FENCE (SEE DWG. MD08)
7. DEMOLISH EXISTING TREES

GENERAL NOTES:

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LEGEND:

- (IP) STORM INLET PROTECTION
- (PS) PERMANENT SEEDING
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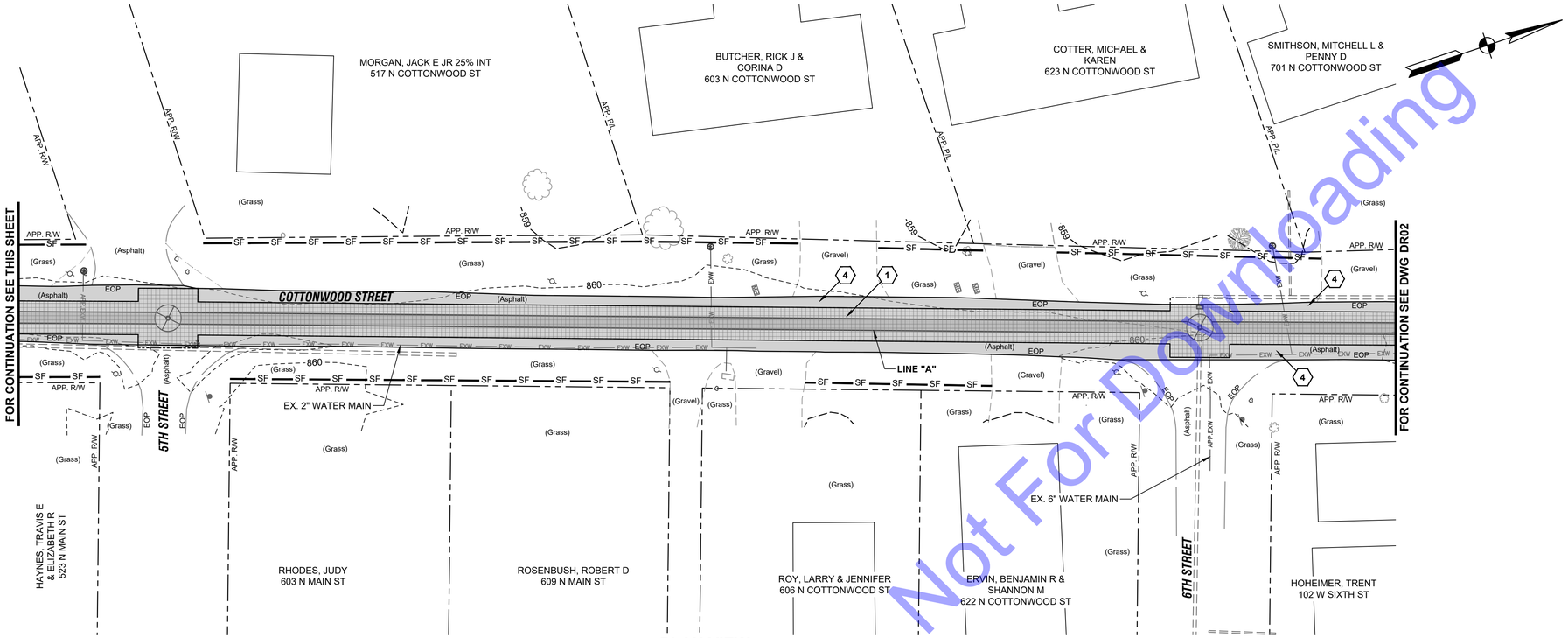
DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "A"

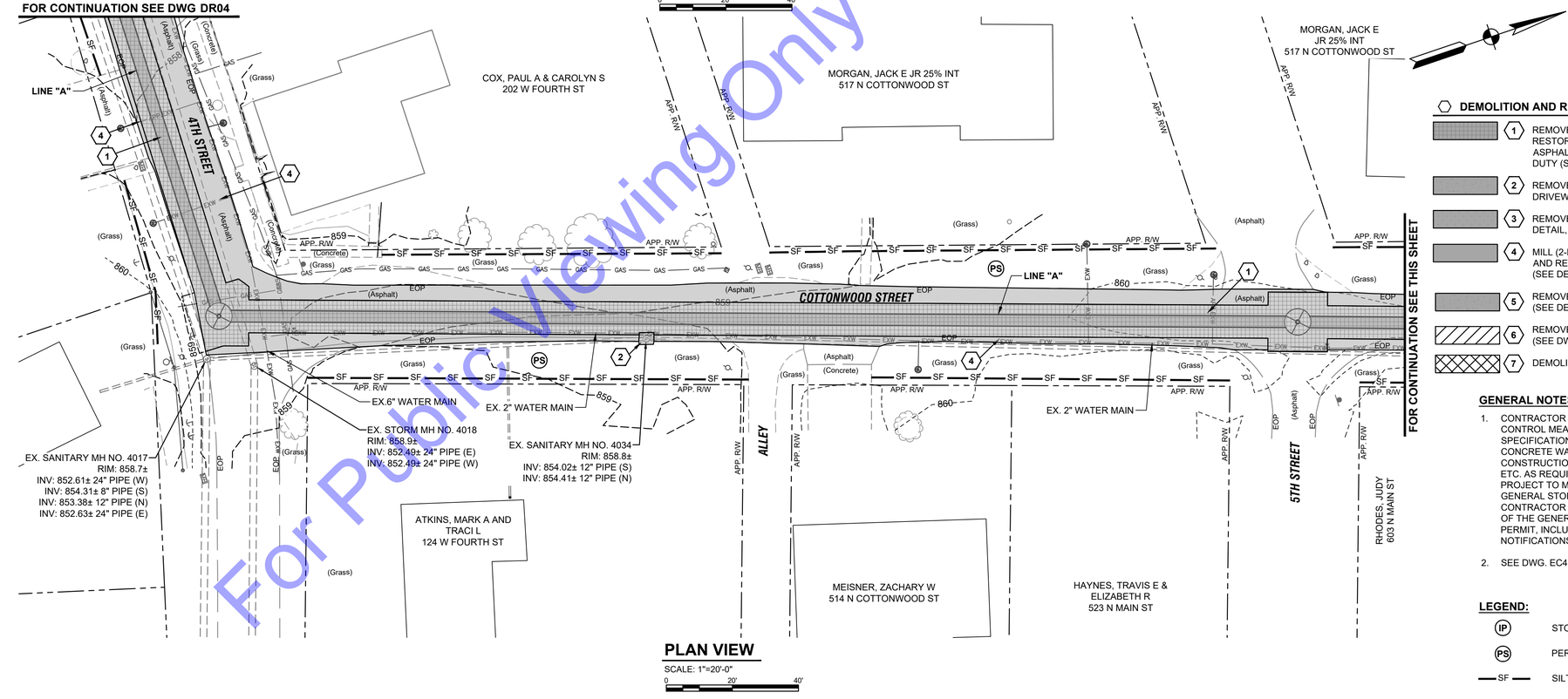
Drawing No:
DR02
Sheet: 25 OF 57



PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'



PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD08).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD08).
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5. REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD11).
6. REMOVE EXISTING CHAINLINK FENCE (SEE DWG. MD08)
7. DEMOLISH EXISTING TREES

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LEGEND:

- (IP) STORM INLET PROTECTION
- (PS) PERMANENT SEEDING
- —SF— SILT FENCE

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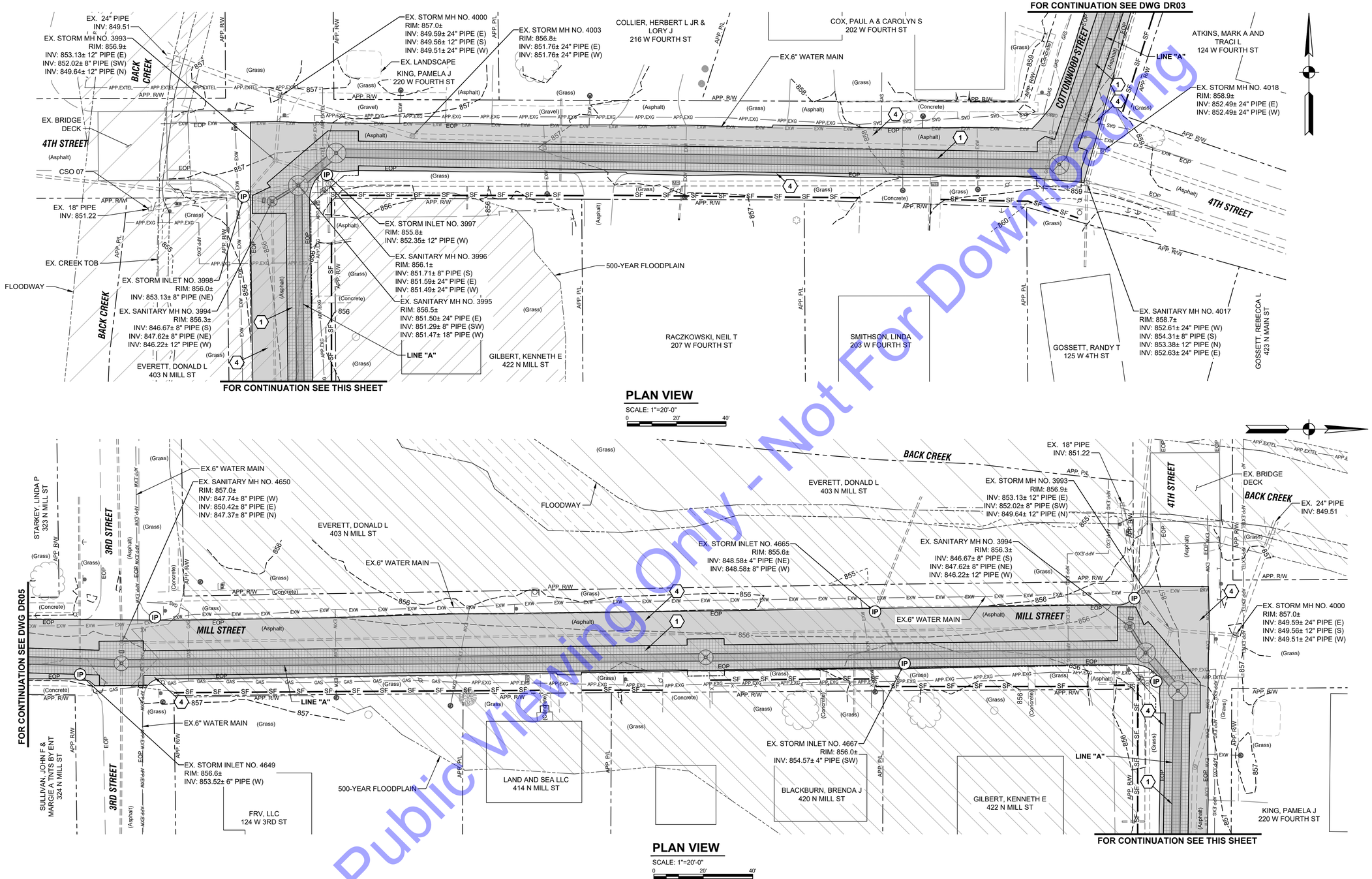
DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "A"

Drawing No: **DR03**

Sheet: 26 OF 57



PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD08).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD08).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD08).
4. MILL (2-INCH) EXISTING ASPHALT PAVEMENT AND RESURFACE ASPHALT PAVEMENT (2-INCH) (SEE DETAIL, DWG MD08).
5. REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD11).
6. REMOVE EXISTING CHAINLINK FENCE (SEE DWG. MD08)
7. DEMOLISH EXISTING TREES

LEGEND:

- IP — STORM INLET PROTECTION
- PS — PERMANENT SEEDING
- SF — SILT FENCE

GENERAL NOTES:

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ROBERT M. BELLUCCI
REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP
PHASE III - COLLECTION
SYSTEM IMPROVEMENTS

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IM	GCR	CL
Issue Date: 4/28/25	Project No: S24169	Scale: AS SHOWN

DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "A"

Drawing No: **DR04**

Sheet: 27 OF 57

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Saved: 4/28/2025 4:00:44 PM Plotted: 4/28/2025 4:15:45 PM Current User: George Rader LastSavedBy: ahatfield

FOR CONTINUATION SEE THIS SHEET

KETCHAM, COLE
221 N MILL ST

MILLER, JOSEPH R
303 N MILL ST

CHAPMAN, DAVID L
307 N MILL ST

PETERS, BRICE A
AND CHRISTINA
313 N MILL ST

COOPER, AMANDA E
317 N MILL ST

STARKEY, LINDA P
323 N MILL ST

EVERETT, DONALD L
403 N MILL ST

INV: 848.57± 8" PIPE (E)

EX. SANITARY MH NO. 4650
RIM: 857.0±
INV: 847.74± 8" PIPE (W)
INV: 850.42± 8" PIPE (E)
INV: 847.37± 8" PIPE (N)

EX.6" WATER MAIN

LINE "A"

EX. STORM INLET NO. 529
RIM: 858.3±
INV: 856.21± 8" PIPE (E)
INV: 854.11± 8" PIPE (W)

EX. SANITARY MH NO. 531
RIM: 859.4±
INV: 855.64± 8" PIPE (E)
INV: 855.62± 8" PIPE (W)

EX.6" WATER MAIN

EX. STORM INLET NO. 528
RIM: 858.2±
INV: 856.28± 8" PIPE (E)
INV: 856.22± 8" PIPE (W)

EX.6" WATER MAIN

EX. STORM INLET NO. 4649
RIM: 856.6±
INV: 853.52± 6" PIPE (W)

500-YEAR FLOODPLAIN

2ND STREET

3RD STREET

MILL STREET

R D HOWARD
PROPERTY 3 LLC
300 N MILL ST

WILLIAMS, BEACHER
R AND SHANNON K
124 W SECOND ST

PRICE, TERRY V &
KATHRYN J
320 N MILL ST

SULLIVAN, JOHN F &
MARGIE A TNTS BY ENT
324 N MILL ST

FRIENDS CHURCH
TRUSTEES
E 1ST ST

FRV, LLC
124 W 3RD ST

FOR CONTINUATION SEE DWG DR04

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

FOR CONTINUATION SEE THIS SHEET

WALLEN, LISA K
316 W SECOND ST

LINE "B"
(SEE DWG. DR10)

EX. 40' PERMANENT
EASEMENT

FLOODWAY

BACK CREEK

FRYE, DEBORA L
216 W SECOND ST

HOOD, TRAVIS AND EMILY
220 W SECOND ST

EX. SANITARY MH NO. 526
RIM: 858.2±
INV: 845.60± 15" PIPE (S)
INV: 846.82± 8" PIPE (NE)
INV: 845.76± 15" PIPE (N)

EX. SANITARY MH NO. 527
RIM: 857.5±
INV: 852.22± 8" PIPE (E)
INV: 852.21± 8" PIPE (SW)
INV: 852.00± 8" PIPE (W)

EX. 8" PIPE
INV: 852.38

CSO 09

EX.8" PIPE
INV: 853.36

FOR CONTINUATION SEE DWG DR10

2ND STREET

EX. BRIDGE DECK

FLOODWAY

BAUGHMAN, CURTIS R
311 W SECOND ST

EX. CREEK TOB

LINE "A"

EX. 40' PERMANENT
EASEMENT

FOR CONTINUATION SEE DWG DR06

500-YEAR FLOODPLAIN

EX.6" WATER MAIN

MILLER, JOSEPH R
303 N MILL ST

R D HOWARD
PROPERTY 3 LLC
300 N MILL ST

MILL STREET

EX. SANITARY MH NO. 530
RIM: 858.0±
INV: 855.18± 8" PIPE (E)
INV: 855.33± 4" PIPE (SE)
INV: 855.09± 8" PIPE (W)

EX. STORM INLET NO. 529
RIM: 858.3±
INV: 856.21± 8" PIPE (E)
INV: 854.11± 8" PIPE (W)

EX. SANITARY MH NO. 531
RIM: 859.4±
INV: 855.64± 8" PIPE (E)
INV: 855.62± 8" PIPE (W)

KETCHAM, COLE
221 N MILL ST

WIMMER, CAROLYN
213 W SECOND ST

LLOYD, LARRY JR AND
JOLEEN DURECE LLOYD
209 W SECOND ST

FRIENDS CHURCH
TRUSTEES
E 1ST ST

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

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REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

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Issue Date: 4/28/25	Project No: S24169	Scale: AS SHOWN

DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "A"

Drawing No:
DR05
Sheet: 28 OF 57

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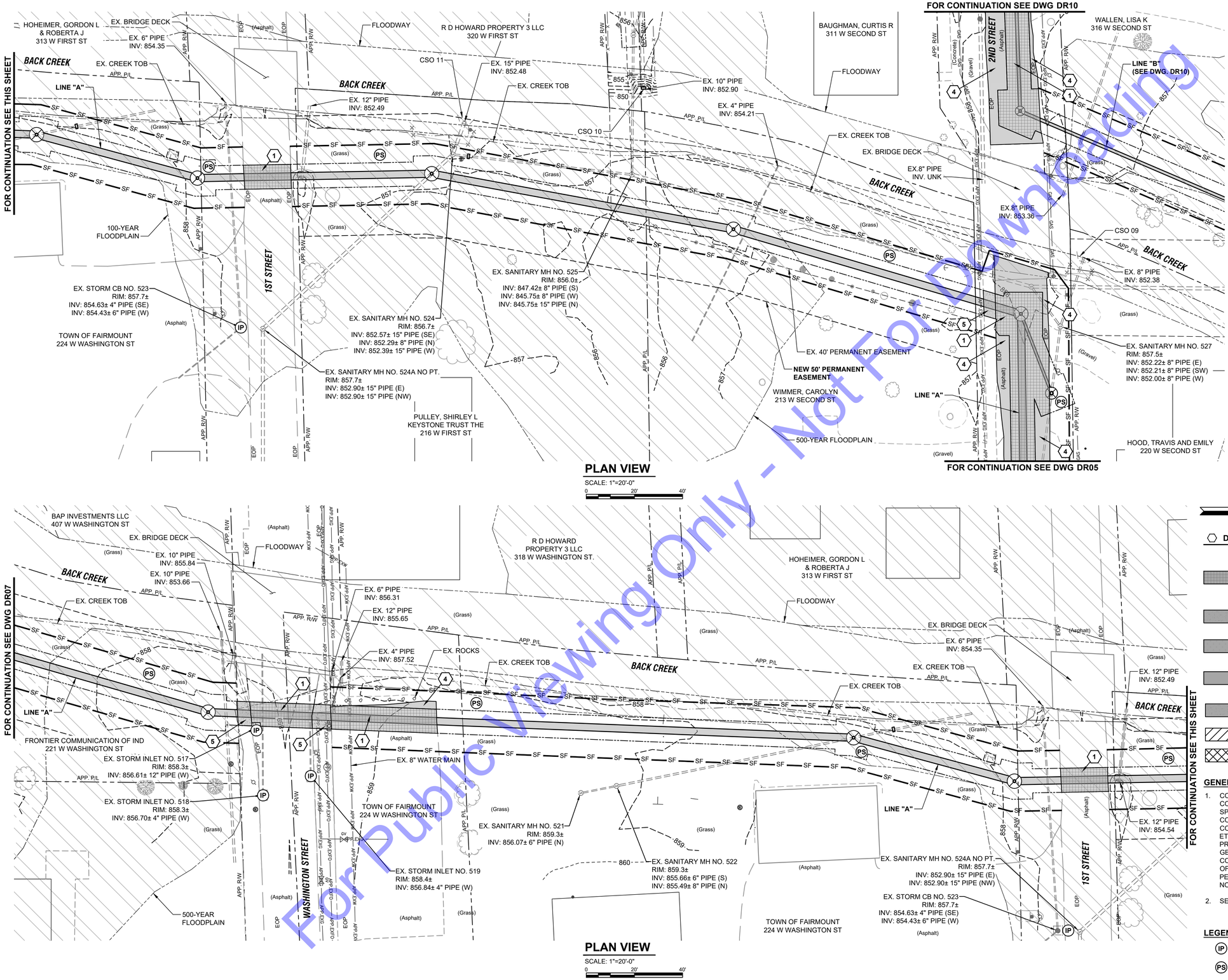

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ROBERT M. BELLUCI
REGISTERED
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STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP PHASE III - COLLECTION SYSTEM IMPROVEMENTS

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DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "A"

Drawing No: **DR06**

Sheet: 29 OF 57

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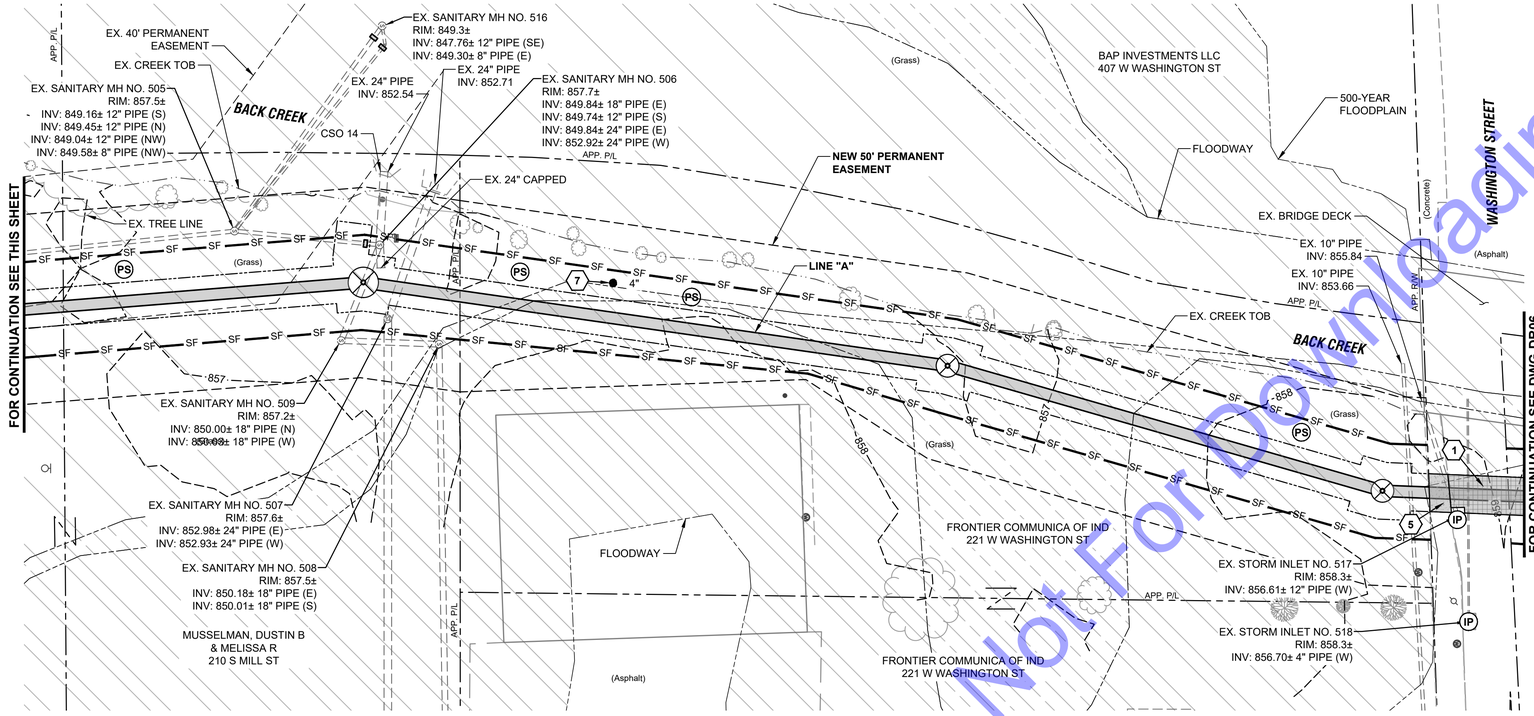
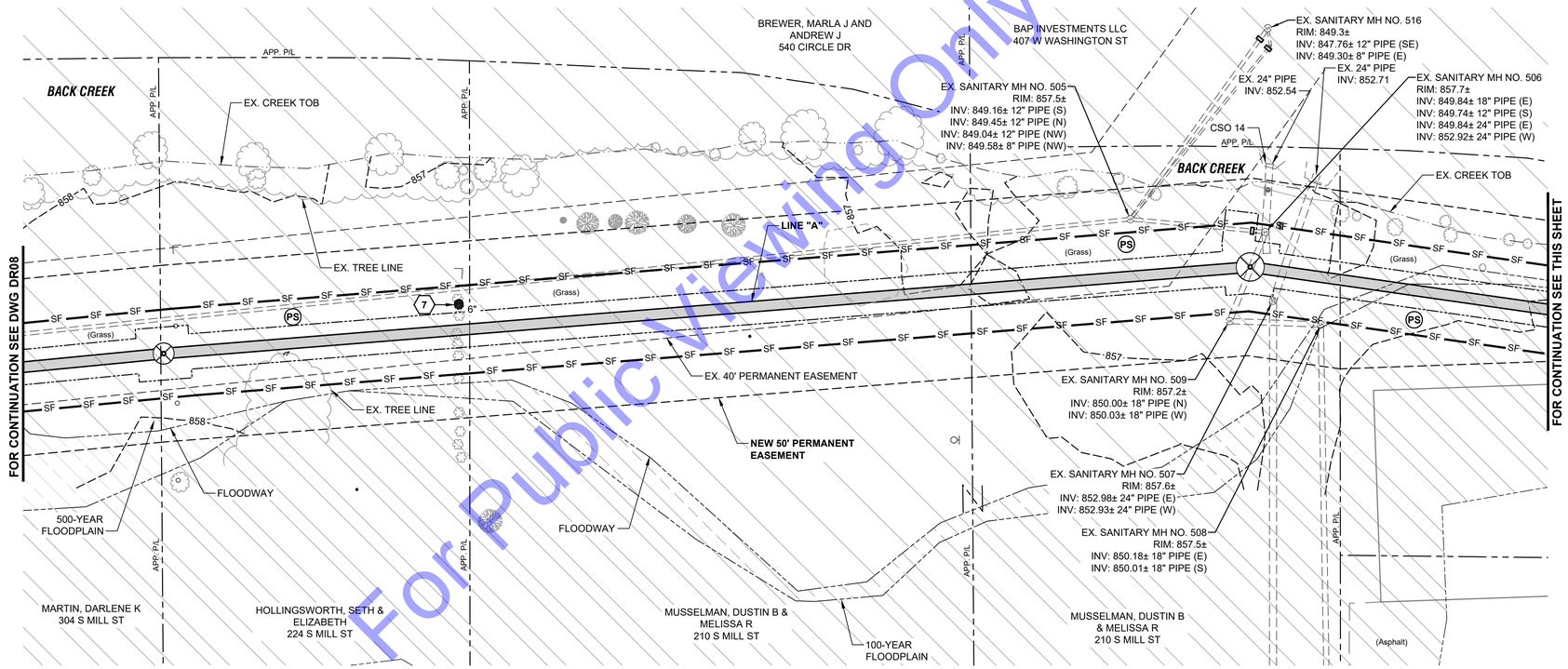


PLAN VIEW

SCALE: 1"=20'-0"



PLAN VIEW

SCALE: 1"=20'-0"

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LEGEND:

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DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "A"

Drawing No:
DR07
Sheet: 30 OF 57

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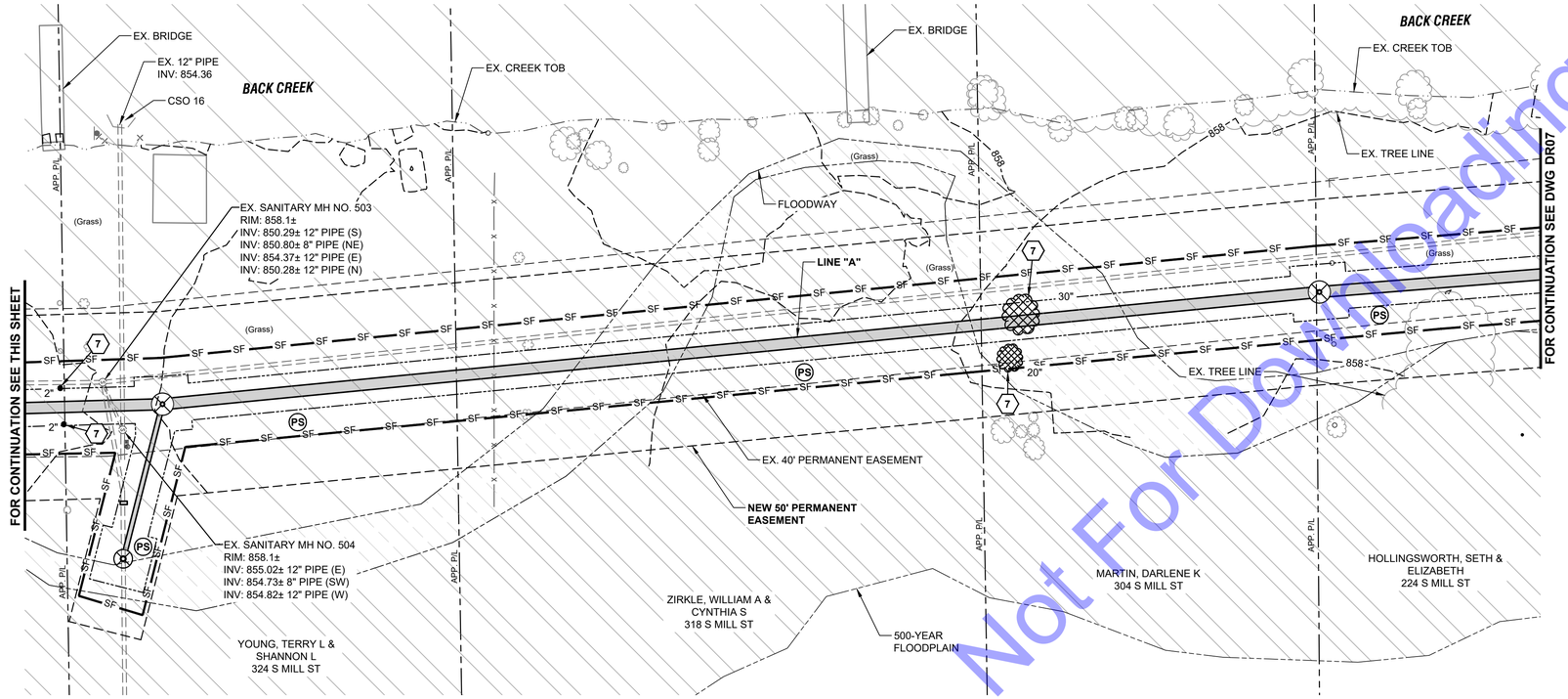
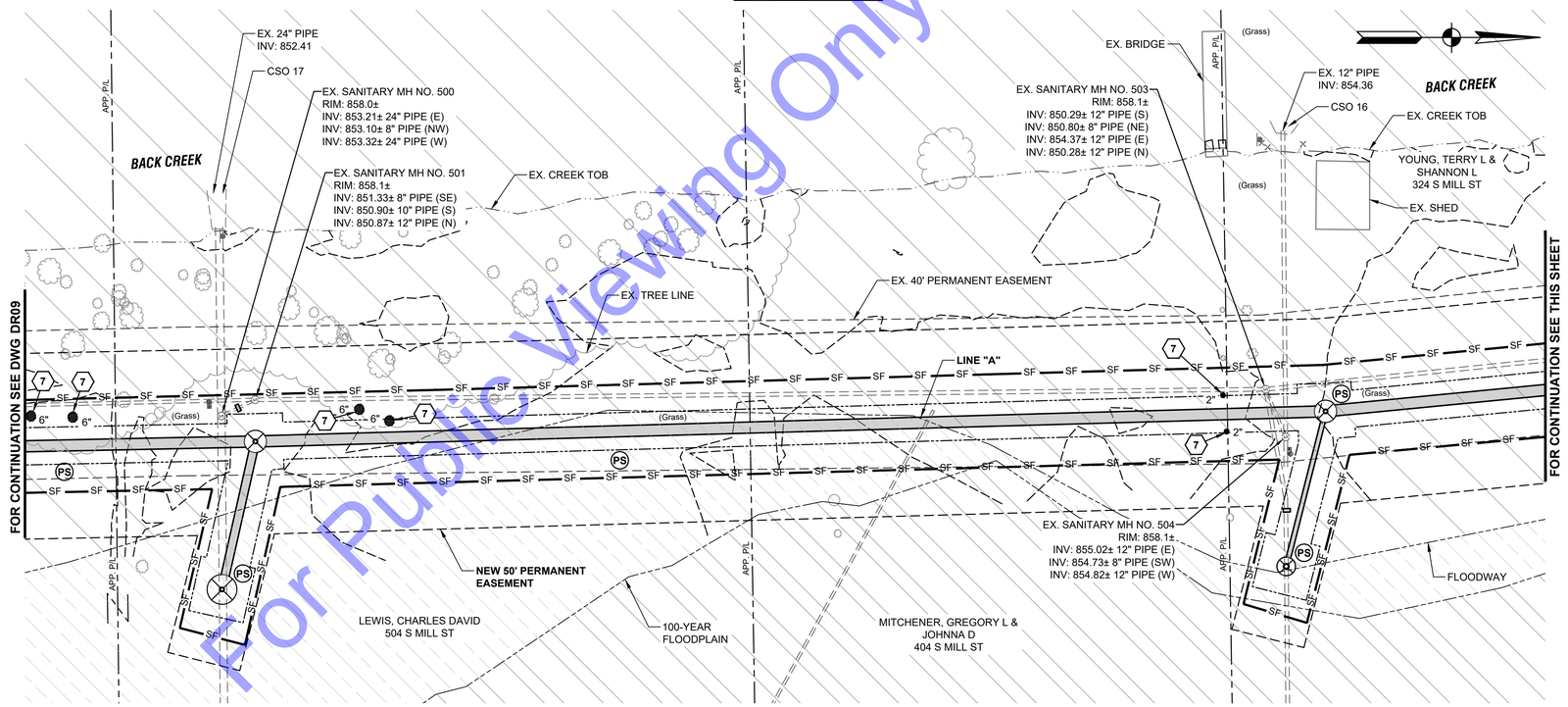


PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'



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DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "A"

Drawing No:
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Sheet: 31 OF 57

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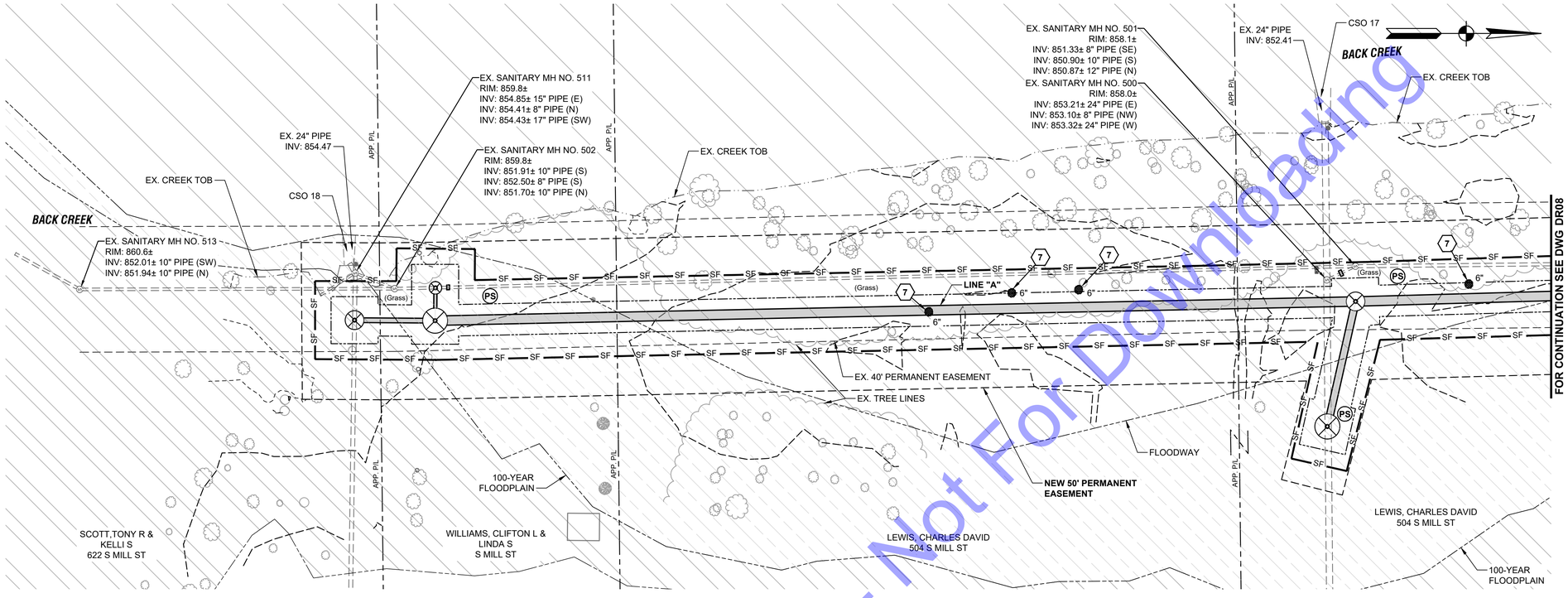

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

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Issue Date:	Project No:	Scale:
4/28/25	S24169	AS SHOWN

DEMOLITION AND EROSION CONTROL PLAN VIEW - LINE "A"

Drawing No:
DR09
Sheet: 32 OF 57

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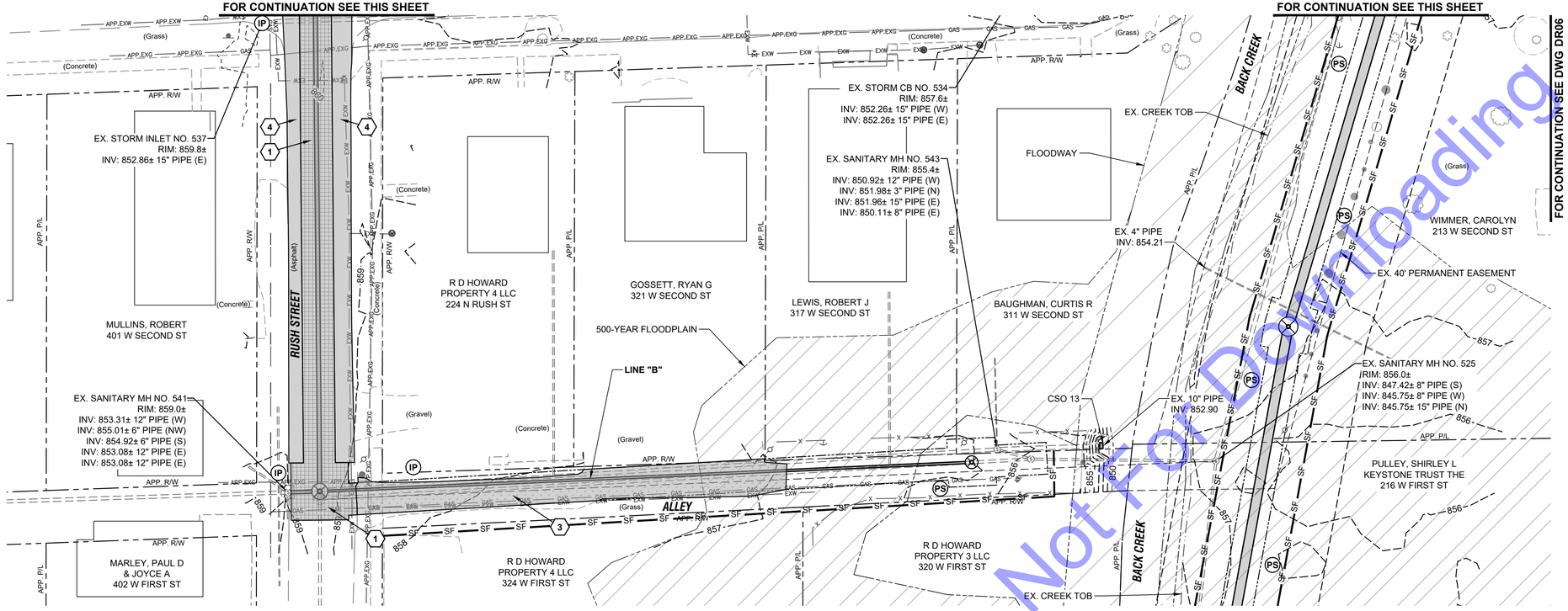

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3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD08).
4. MILL (2-INCH) EXISTING ASPHALT PAVEMENT AND RESURFACE ASPHALT PAVEMENT (2-INCH) (SEE DETAIL, DWG MD08).
5. REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD11).
6. REMOVE EXISTING CHAINLINK FENCE (SEE DWG. MD08)

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS SPECIFIED IN THE DETAILED SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO CONCRETE WASHOUT STATIONS, TEMPORARY CONSTRUCTION ENTRANCES, TEMPORARY SEEDING, ETC. AS REQUIRED DURING THE DURATION OF THE PROJECT TO MAINTAIN COMPLIANCE WITH THE GENERAL STORM WATER CONSTRUCTION PERMIT. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE GENERAL STORM WATER CONSTRUCTION PERMIT, INCLUDING PROVIDING REQUIRED NOTIFICATIONS TO THE REQUIRED AGENCIES.
2. SEE DWG. EC4 FOR EROSION CONTROL DETAILS.

LEGEND:

- (IP) STORM INLET PROTECTION
- (PS) PERMANENT SEEDING
- —SF— SILT FENCE

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Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP
PHASE III - COLLECTION
SYSTEM IMPROVEMENTS

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Designed By:	Drawn By:	Checked By:
IM	GCR	CL
Issue Date: 4/28/25	Project No: S24169	Scale: AS SHOWN

DEMOLITION AND EROSION CONTROL PLAN VIEWS - LINE "B"

Drawing No: **DR10**

Sheet: 33 OF 57

File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\A CURRENT FILES\ DRAWINGS\04-EROSION CONTROL DRAWINGS.DWG
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SECTION A: BASIC PLAN ELEMENTS

CONSTRUCTION PLAN - GENERAL PLAN COMPONENTS (SECTION A)

A1 INDEX OF THE LOCATION OF REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLAN:

THIS DOCUMENT REPRESENTS THE PLAN INDEX. THE CONTENT IS ORGANIZED AROUND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT CONSTRUCTION STORMWATER GENERAL PERMIT CONSTRUCTION/STORMWATER POLLUTION PREVENTION PLAN DEVELOPMENT GUIDANCE. DETAILS ARE SPECIFIC TO THE TOWN OF FAIRMOUNT WASTEWATER TREATMENT IMPROVEMENTS.

A2 A VICINITY MAP DEPICTING THE PROJECT SITE LOCATION IN RELATIONSHIP TO RECOGNIZABLE LOCAL LANDMARKS, TOWNS, AND MAJOR ROADS:

THIS INFORMATION HAS BEEN INCLUDED AND IS SHOWN IN THE PLANS. AN AERIAL SITE MAP ILLUSTRATING THE APPROXIMATE EXTENT OF THE PROJECT IS ALSO SHOWN IN THE PLANS. A USGS TOPOGRAPHIC MAP IS SHOWN IN **EXHIBIT #1**. MOST OF THE INTERCEPTOR CONSTRUCTION WILL OCCUR IN EXISTING RIGHT OF WAY AND WITHIN EXISTING EASEMENTS. FOR INSTALLATION OCCURRING WITHIN PRIVATE PROPERTY, EASEMENTS WILL BE ACQUIRED PRIOR TO THE MOBILIZATION AND START OF CONSTRUCTION.

A3 NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT:

THE TOWN OF FAIRMOUNT OWNS AND OPERATES ITS OWN WASTEWATER UTILITY SYSTEM, WHICH INCLUDES A GRAVITY COLLECTION SYSTEM WITH A 3.0 MGD WASTEWATER TREATMENT PLANT. MUCH OF THE COLLECTION SYSTEM CONSISTS OF COMBINED SEWER, WHICH RESULTS IN HIGH INFLUXES OF WASTEWATER FLOW DURING PRECIPITATION EVENTS. THE TOWN CURRENTLY OPERATES SEVENTEEN (17) COMBINED SEWER OVERFLOWS (CSOS), WHICH ARE REGULARLY USED DURING PRECIPITATION EVENTS. WHEN FORMING A LONG-TERM CONTROL PLAN (LTCP), THE TOWN OF FAIRMOUNT AND COMMONWEALTH ENGINEERS, INC. IDENTIFIED THE COLLECTION SYSTEM'S LIMITED HYDRAULIC CAPACITY AS A CONTRIBUTOR TO OVERFLOW EVENTS.

THE PROPOSED PROJECT INCLUDES A NEW 42-INCH AND 36-INCH SEWER INTERCEPTOR THAT WILL BE INSTALLED TO PARTIALLY REPLACE THE EXISTING INTERCEPTOR. ADDITIONALLY, A NEW DIVERSION BOX STRUCTURE WILL BE LOCATED AT THE BASE OF THE INTERCEPTOR AT THE WASTEWATER TREATMENT PLANT. A FLOW METER WILL ACTIVATE MODULATING SLIDE GATES TO OPEN AND CLOSE DEPENDING ON THE INFLUENT PLANT FLOW.

THE PROPOSED PROJECT IS SHOWN IN THE PLAN SHEETS. THE GENERAL LOCATION OF THE PROJECT IS SHOWN IN THE PROJECT PLANS.

A4 LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS:

THE APPROXIMATE COORDINATES FOR THE PROJECT SITE ARE 40.424004, -85.650112. THESE COORDINATES MARK THE LOCATION OF THE WASTEWATER TREATMENT PLANT.

A5 LEGAL DESCRIPTION OF THE PROJECT SITE:

THE TOWN OF FAIRMOUNT IS LOCATED IN FAIRMOUNT TOWNSHIP OF GRANT COUNTY, INDIANA. THE PROJECT IS LOCATED IN **TABLE 1-1** BELOW.

TABLE 1-1

TOWNSHIPS	RANGE	SECTIONS
23N	8E	19, 20, 29, 30, 32

A6 11X 17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES:

ALL LOT BOUNDARIES AND ROAD NAMES ARE SHOWN ON THE PLANS. MOST OF THE INTERCEPTOR CONSTRUCTION WILL OCCUR IN EXISTING RIGHT OF WAY AND WITHIN EXISTING EASEMENTS. FOR INSTALLATION OCCURRING WITHIN PRIVATE PROPERTY, EASEMENTS WILL BE ACQUIRED PRIOR TO THE MOBILIZATION AND START OF CONSTRUCTION.

A7 BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS:

THE FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS LOCATED WITHIN THE PROJECT AREA ARE SHOWN IN **EXHIBIT #2**. THE ONLY PROJECT SITE WITHIN REGULATED FLOODWAY IS AT THE SOUTHERN PORTION OF THE PROJECT LIMITS, SOUTH OF THE BACK CREEK CROSSING WITH CR E 950 S (WASHINGTON ST). THE LATITUDE/LONGITUDE COORDINATE LOCATION OF THE PROJECT OCCURRING IN DNR REGULATED FLOODWAY IS: 40.424004, -85.650112. PERMANENT INSTALLATION WITHIN THE DNR FLOODPLAIN INCLUDES FIVE (5) MANHOLE STRUCTURES ALONGSIDE WITH 905 LF OF 36-INCH C-905 PVC PIPE. ALL PERMANENT IMPACTS WITHIN THE FLOODWAY AND 100-YEAR FLOOD FRINGE ARE SUBSURFACE, AS MANHOLE STRUCTURES WILL BE FLUSH WITH THE EXISTING GRADE AND SEALED WITH STEEL BOLT DOWN LIDS. THUS, NO CHANGE IN BASE FLOOD ELEVATION WILL OCCUR.

A8 LAND USE OF ALL ADJACENT PROPERTIES:

LAND USE AT THE PROJECT SITE AND THE SURROUNDING AREAS IS SHOWN IN **EXHIBIT #3**. LOW INTENSITY DEVELOPED, WITH SCATTERED AREAS CLASSIFIED AS DEVELOPED MEDIUM AND HIGH INTENSITY ALONG THE DOWNTOWN AREA. SOME AREAS CLASSIFIED AS PASTURE ARE SHOWN TO THE SOUTHWEST AND CULTIVATED CROPS PRIMARILY TO THE EAST OF TOWN. LAND USE ADJACENT TO THE PLANNING AREA INCLUDES CULTIVATED CROPS AND DECIDUOUS FOREST.

A9 IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL:

THE PROJECT AREA IS LOCATED WITHIN THE BACK CREEK (051201030504) WATERSHED AND THE MASSEY CREEK-MISSISSINEWA RIVER (05120103050) WATERSHED. THE PORTION OF THE BACK CREEK WITHIN THE PROJECT AREA IS INCLUDED IN THE MASSEY CREEK-MISSISSINEWA RIVER WATERSHED HAS NOT HAD AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL).

A10 NAME(S) OF THE RECEIVING WATER(S):

THE RECEIVING WATER BODY IN THE PROJECT AREA IS BACK CREEK. THE ULTIMATE RECEIVING WATER FOR THE CITY'S STORM SEWER SYSTEM IS THE MISSISSINEWA RIVER.

A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS AND THE POLLUTANT FOR WHICH IT IS IMPAIRED:

THE BACK CREEK IS NOT ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS FOR E. COLI AND POLYCHLORINATED BIPHENYL (PCBS).

A12 SOILS MAP OF THE PREDOMINATE SOIL TYPES:

THE SOILS MAP FOR THE PROJECT AREAS THAT INVOLVE LAND DISTURBANCE ARE SHOWN IN **EXHIBIT #4**. THE SOILS IN THE PROJECT AREA CONSIST MAINLY OF "PW" "PEWAMO SILT CLAY LOAM, 0 TO 1 PERCENT SLOPES," "GLSB2" "GLYNWOOD SILT LOAM, 2 TO 6 PERCENT SLOPES," AND "BGMA" "BLOUNT SILT LOAM, 0 TO 2 PERCENT SLOPES." THE SOILS AT THE WWTP CONSIST MAINLY OF "ST" "SLOAN SILT LOAM.

CONSTRUCTION PROJECTS ARE NOT EXPECTED TO HAVE ANY DETRIMENTAL, LONG-TERM IMPACT ON THE SOIL. SHORT-TERM IMPACTS WILL RELATE ONLY TO EXCAVATION ACTIVITIES FOR THE PROPOSED SYSTEM IMPROVEMENTS AND WILL BE MINIMAL. THESE IMPACTS CAN BE MITIGATED USING APPROPRIATE TECHNIQUES FOR EROSION CONTROL AND SURFACE RESTORATION DURING AND AFTER CONSTRUCTION.

SEASONAL WETNESS IS LIKELY TO BE THE MAIN LIMITATION OF THE SOIL IN THE CONSTRUCTION AREA. FOR THIS PROJECT, CONSTRUCTION PROBLEMS ASSOCIATED WITH WET SOILS WILL BE BEST OVERCOME BY COMPLETING OPEN EXCAVATION WORK DURING FAVORABLE CONDITIONS AND COORDINATING WORK ACTIVITIES BASED UPON WEATHER AND SOIL CONDITIONS. UNDER SEVERE SOIL WETNESS CONDITIONS, QUICKLIME MAY BE USED TO HELP DRY WET SOIL FOR SITE ACCESS PURPOSES AND TO REDUCE DOWNTIME. THE DEPTH TO WATER TABLE IN THE PROJECT AREA IS GENERALLY 0 TO 50 CM.

A13 IDENTIFICATION AND LOCATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING LAYOUT):

ALL WETLANDS, LAKES, AND WATER COURSES LOCATED WITHIN AND NEARBY THE PROJECT AREA HAVE BEEN IDENTIFIED AND ARE SHOWN IN **EXHIBIT #4 AND #5**. THE MAJOR WATERWAY IN THE AREA IS THE BACK CREEK. STORMWATER DERIVED FLOW WILL GENERALLY DRAIN INTO THIS WATERBODY.

A14 IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES:

NO ADDITIONAL WATER QUALITY PERMITS ARE REQUIRED FOR THE PROPOSED PROJECT.

A15 IDENTIFICATION AND DELINEATION OF EXISTING VEGETATIVE COVER, INCLUDING NATURAL BUFFERS:

LAND USE IN THE PROJECT SITE IS PRIMARILY LOW INTENSITY DEVELOPED LAND AS SHOWN IN **EXHIBIT #3** WITH SCATTERED AREAS CLASSIFIED AS DEVELOPED MEDIUM AND HIGH INTENSITY ALONG THE DOWNTOWN AREA. SOME AREAS CLASSIFIED AS PASTURE ARE SHOWN TO THE SOUTHWEST AND CULTIVATED CROPS PRIMARILY TO THE EAST OF TOWN. LAND USE ADJACENT TO THE PLANNING AREA INCLUDES CULTIVATED CROPS AND DECIDUOUS FOREST. THIS PROJECT INVOLVES THE INSTALLATION OF WASTEWATER UTILITY IMPROVEMENTS ON ROAD RIGHT OF WAYS, UTILITY EASEMENTS, AND TOWN OWNED PROPERTY. ALL IMPROVEMENTS WILL BE CONSTRUCTED MORE THAN 50 FEET AWAY FROM RIPARIAN AND WETLAND VEGETATION. NO NATURAL BUFFERS WILL BE IMPACTED BY THE PROPOSED PROJECT. PROPER TECHNIQUES FOR EROSION CONTROL AND SURFACE RESTORATION, INCLUDING STABILIZATION WITH APPROPRIATE VEGETATIVE COVER, WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN DS-04 "TEMPORARY EROSION CONTROL" AND WM-24 "SEEDING AND SODDING," BOTH UNDER SEPARATE ATTACHMENT.

A16 EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO SHOW DETAILED DRAINAGE PATTERNS:

A USGS TOPOGRAPHIC MAP IS SHOWN IN **EXHIBIT #1**. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLAN SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

A17 LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE:

A USGS TOPOGRAPHIC MAP IS SHOWN IN **EXHIBIT #1**. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLANS SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

A18 LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE:

A USGS TOPOGRAPHIC MAP IS SHOWN IN **EXHIBIT #1**. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLAN SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

A19 LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE:

THE LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE CAN BE SEEN IN THE PLANS.

A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT:

THERE ARE NO PERMANENT RETENTION OR DETENTION FACILITIES DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT LOCATED WITHIN THE PROJECT AREA.

A21 LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES:

ONE (1) ABANDONED WELL IS LOCATED ALONG THE PROJECT CORRIDOR JUST SOUTH OF THE BACK CREEK CROSSING WITH 1ST STREET. THE TOWN, ALONG WITH THE CONTRACTOR ORTMAN DRILLING, HAS INDICATED THAT THE WELL WAS PROPERLY SEALED AND ABANDONED. HOWEVER, DUE TO NEARBY EXCAVATION, A SELECTED CONTRACTOR WILL BE RESEALING THE WELL ROUGHLY TWO (2) FEET BELOW THE BASE OF PIPE EXCAVATION AND REMOVING THE SURFACE SEAL, THUS PREVENTING ANY DISTURBANCE OF GROUNDWATER.

A22 SIZE OF THE PROJECT AREA EXPRESSED IN ACRES:

THE TOTAL PROJECT AREA IS APPROXIMATELY 26.28 ACRES.

A23 TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES:

THE TOTAL EXPECTED LAND DISTURBANCE FOR THE PROJECT IS APPROXIMATELY 3.04 ACRES.

A24 PROPOSED FINAL TOPOGRAPHY:

THE INDIVIDUAL PLAN SHEETS SHOW PROPOSED SITE TOPOGRAPHY AND DRAINAGE PATTERNS.

A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS:

THE PLANS SHOW THE LOCATIONS AND BOUNDARIES OF ALL DISTURBED AREAS/CONSTRUCTION LIMITS.

A26 LOCATIONS, SIZE AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNEL:

THE EXISTING AND PROPOSED STORMWATER DRAINAGE SYSTEMS ARE SHOWN ON THE PLANS. ALL EXISTING STORMWATER SYSTEMS WILL BE PROTECTED AND MAINTAINED DURING CONSTRUCTION. IF DURING CONSTRUCTION ANY DAMAGE IS DONE TO AN EXISTING STORMWATER SYSTEM, DAMAGED STRUCTURES WILL BE EITHER REPAIRED OR REPLACED TO EQUAL OR BETTER CONDITION THAN EXISTING.

A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE:

LOCATIONS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE CAN BE SEEN ON THE PLANS.

A28 LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS:

LOCATIONS OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING PROPOSED UTILITIES, STRUCTURES, AND LOT BOUNDARIES, ARE SHOWN ON THE PLANS. NO OFF-SITE CONSTRUCTION IS EXPECTED FOR THIS PROJECT.

A29 LOCATIONS OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS:

THE LOCATIONS OF STOCKPILES AND BORROW AREAS ARE SHOWN ON THE PLANS. SOIL STOCKPILES SHALL BE SURROUNDED BY SILT FENCE OR OTHER PERIMETER CONTROLS. SOIL STOCKPILES LEFT INACTIVE FOR SEVEN (7) DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY SEED. ALL STOCKPILES AND BORROW AREAS WILL BE LOCATED ON-SITE AND THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A PERMIT OR RELEASE FOR PROPER DISPOSAL OF EXCAVATED MATERIALS.

A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT:

STAGING AREAS, MATERIAL STORAGE, AND CONCRETE WASHOUT AREAS ARE SHOWN IN THE PLANS. REFER TO SHEETS C-01, C-02, AND C-03.

A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUNDS:

NO WORK WITHIN STREAMS IS PROPOSED AS PART OF THIS PROJECT.

STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT (SECTION B)

STORMWATER POLLUTION PREVENTION MEASURES SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AUTHORITY AND THE APPLICABLE MS4 STORMWATER QUALITY STANDARDS.

B1 DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES:

OPERATION	POTENTIAL POLLUTANTS
CLEARING, GRADING, EXCAVATING	SEDIMENT, DEBRIS
SOIL STOCKPILES	SEDIMENT
DEWATERING OPERATIONS	SEDIMENT
PAVING REPAIR	SEDIMENT, DEBRIS
VEHICLE FUELING, MAINTENANCE	OIL, GREASE, FUEL
GENERAL CONSTRUCTION ACTIVITY	TRASH, SANITATION CHEMICALS
PAVEMENT RESTORATION	BITUMINOUS DEBRIS

EXCAVATION, STOCKPILING:

STOCKPILE MANAGEMENT PROCEDURES AND PRACTICES WILL BE IMPLEMENTED TO MINIMIZE OR ELIMINATE THE DISCHARGE OF STOCKPILED MATERIAL (SOIL, TOPSOIL, BASE MATERIAL) FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS.

FOR ANY STOCKPILES OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. LOCATE PILES WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.
2. PROTECT FROM CONTACT WITH STORMWATER USING A TEMPORARY PERIMETER SEDIMENT BARRIER.
3. WHERE PRACTICABLE, PROVIDE COVER OR APPROPRIATE TEMPORARY VEGETATIVE OR STRUCTURAL STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE THE DISCHARGE OF SEDIMENTS.
4. NEVER HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OR SURFACE WATER.
5. TO THE MAXIMUM EXTENT PRACTICABLE, CONTAIN AND SECURELY PROTECT STOCKPILES FROM WIND.

DEWATERING:

EQUIPMENT OPERATORS ARE PROHIBITED FROM DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, UNLESS SUCH WATERS ARE EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES.

EXAMPLES OF APPROPRIATE CONTROL MEASURES INCLUDE TEMPORARY SEDIMENT BASINS OR SEDIMENT TRAPS, SEDIMENT SOCKS, DEWATERING TANKS AND BAGS, OR FILTRATION SYSTEMS (E.G., BAG OR SAND FILTERS) THAT ARE DESIGNED TO REMOVE SEDIMENT. UNCONTAMINATED, NON-TURBID DEWATERING WATER CAN BE DISCHARGED WITHOUT BEING ROUTED TO A CONTROL.

AT A MINIMUM, THE FOLLOWING DISCHARGE REQUIREMENTS MUST BE MET FOR DEWATERING ACTIVITIES:

1. ALLOW NO DISCHARGE OF VISIBLE SEDIMENTS OR SOLIDS.
2. AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED, UTILIZE VELOCITY DISSIPATION DEVICES.
3. DEWATERING PRACTICES MUST INVOLVE THE IMPLEMENTATION OF APPROPRIATE CONTROL MEASURES AS APPLICABLE (I.E., CONTAINMENT AREAS FOR DEWATERING EARTH MATERIALS, PORTABLE SEDIMENT TANKS AND BAGS, PUMPING SETTLING BASINS, AND PUMP INTAKE PROTECTION).

VEHICLE FUELING:

VEHICLE FUELING SHALL NOT TAKE PLACE WITHIN REGULATED DRAIN AREAS WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50 FEET OF THE STORM DRAIN SYSTEM. DESIGNATED AREAS SHALL BE DEPICTED ON THE PLANS OR SHALL BE APPROVED BY THE SITE OWNER.

VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE PLANS OR APPROVED OF BY THE SITE OWNER. MAINTENANCE OR WASHING AREAS SHALL NOT BE WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50 FEET OF THE STORM DRAIN SYSTEM. MAINTENANCE AREAS SHALL BE CLEARLY DESIGNATED, AND BARRIERS SHALL BE USED AROUND THE PERIMETER OF THE MAINTENANCE AREA TO PREVENT STORMWATER CONTAMINATION.

CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL TAKE PLACE IMMEDIATELY. DISPOSAL OF ALL USED OIL, ANTIFREEZE, SOLVENTS, AND OTHER AUTOMOTIVE-RELATED CHEMICALS SHALL BE ACCORDING TO APPLICABLE REGULATIONS; AT NO TIME SHALL ANY MATERIAL BE WASHED DOWN THE STORM DRAIN OR INTO ANY ENVIRONMENTALLY SENSITIVE AREA.

AFTER THE SWPPP IS IMPLEMENTED, ALL DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS THROUGH THE ADMINISTRATION OF A SELF-MONITORING PROGRAM. THE PURPOSE OF THE SELF-MONITORING PROGRAM REPORTS, WHICH ARE TO BE COMPLETED BY A TRAINED INDIVIDUAL, IS TO ASSESS THE PERFORMANCE OF POLLUTANT CONTROL MEASURES. BASED ON THESE INSPECTIONS, IT WILL BE DETERMINED IF ADDITIONAL MEASURES ARE NECESSARY TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THE CONTRACTOR WILL BE REQUIRED TO REPAIR, MODIFY, MAINTAIN, OR TAKE ADDITIONAL STEPS AS NECESSARY TO ACHIEVE EFFECTIVE POLLUTANT CONTROL. REFER ALSO TO DS-04, "TEMPORARY EROSION CONTROL" WHICH IS INCLUDED AS A PART OF THE CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT AND IS LOCATED UNDER SEPARATE ATTACHMENT.

B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS:

STABLE CONSTRUCTION ENTRANCE LOCATIONS ARE SHOWN ON THE PLANS. UPON COMPLETION OF CONSTRUCTION ALL SURFACES SHALL BE RESTORED TO MATCH PRE-CONSTRUCTION CONDITIONS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE EXISTING SURFACES ACTING AS CONSTRUCTION ENTRANCES/EXITS TO PRE-CONSTRUCTION CONDITIONS. REFER ALSO TO DS-04, "TEMPORARY EROSION CONTROL", LOCATED UNDER SEPARATE ATTACHMENT.

B3 SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION:

TEMPORARY AND PERMANENT SEED SURFACE STABILIZATION WILL BE UTILIZED WHERE NEEDED. SEE DS-04, "TEMPORARY EROSION CONTROL" AND WM-24 "SEEDING AND SODDING" (LOCATED UNDER SEPARATE ATTACHMENT) FOR ADDITIONAL INFORMATION.

IN ORDER TO REDUCE THE EXTENT OF EXPOSED AREAS AND THE DURATION OF EXPOSURE, CLEARING, GRADING, AND VEGETATIVE RE-STABILIZATION MUST BE PROPERLY TIMED AND COORDINATED. SEEDING AND MULCHING OR TEMPORARY SEEDING WILL BE PERFORMED AS SOON AS PRACTICABLE ON AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION. UNVEGETATED AREAS THAT ARE LEFT IDLE OR SCHEDULED TO BE LEFT UNACTIVE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL. STABILIZATION MUST BE INITIATED BY THE END OF THE SEVENTH DAY THE AREA IS LEFT IDLE. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION. INITIATION OF STABILIZATION INCLUDES SEEDING AND APPLYING MULCH OR OTHER TEMPORARY SURFACE STABILIZATION METHODS WHERE APPROPRIATE. BIODEGRADABLE MATTING OR NETTING MAY BE USED TO STABILIZE SOILS ON SLOPED AREAS AND SOME RECENTLY PLANTED AREAS TO PROTECT SEEDLINGS UNTIL THEY HAVE BECOME ESTABLISHED. TEMPORARY SEEDING OR EROSION CONTROL MATS ARE TO BE USED TO STABILIZE EXPOSED SURFACES IF FINAL GRADING AND SEEDING MUST BE DELAYED.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:

PROTECTIVE MEASURES FOR AREAS OF CONCENTRATED FLOW WILL INCLUDE TEMPORARY AND PERMANENT VEGETATION, MULCHES, EROSION CONTROL BLANKETS, CHECK DAMS, OR OTHER PRACTICES TO CORRESPOND WITH CONSTRUCTION ACTIVITIES. SEDIMENT CONTROL MEASURES FOR AREAS OF CONCENTRATED FLOW ARE NOT ANTICIPATED AS NECESSARY FOR ANY SPECIFIC AREAS OF THE PROPOSED PROJECT. SEDIMENT CONTROL MEASURES FOR AREAS OF CONCENTRATED FLOW WILL BE PROVIDED AS NEEDED BY THE CONTRACTOR. REFER TO DS-04, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR MORE INFORMATION.

B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:

ALL DISTURBED AREAS, WHERE RUNOFF WILL BE IN SHEET FLOW CONDITION AND WHICH ARE NOT TO BE DISTURBED FOR SEVEN (7) DAYS OR MORE, SHALL RECEIVE TEMPORARY SEEDING. DISTURBED AREAS SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER LAND DISTURBANCE ACTIVITIES ARE COMPLETED. PERIMETER PROTECTION, SUCH AS SILT FENCE AND INLET PROTECTION, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS. IN GENERAL, SILT FENCES WILL BE INSTALLED APPROXIMATELY FIVE (5) FEET FROM PROPERTY BOUNDARIES/RIGHT OF WAY BOUNDARIES AS APPLICABLE. INSTALLATION OF SILT FENCES WILL TYPICALLY BE REQUIRED ON THE DOWNSLOPE SIDE OF ALL OPEN TRENCHES EXCAVATED FOR STORM SEWER INSTALLATION. THE PLANS SHOW ADDITIONAL EROSION CONTROL MEASURES PROPOSED FOR THIS PROJECT. REFER TO DS-04, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR MORE DETAIL.

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ROBERT M. BELLICH REGISTERED No. 10000127 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP
PHASE III - COLLECTION
SYSTEM IMPROVEMENTS

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No.	Submittal / Revision	By	Date

Designed By:	Drawn By:	Checked By:
IM	GCR	CL
Issue Date: 4/28/25	Project No: S24169	Scale: AS SHOWN

STORMWATER POLLUTION PREVENTION PLAN NOTES

Drawing No: **EC1**

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File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\A CURRENT FILES\ I DRAWINGS\04-EROSION CONTROL DRAWINGS.DWG
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STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT (SECTION B)

B6 RUNOFF CONTROL MEASURES:

DIVERSION DITCHES, CHECK DAMS, SLOPE DRAINS, OR OTHER SIMILAR STRUCTURES FOR RUNOFF CONTROL ARE NOT ANTICIPATED FOR THIS PROJECT.

B7 STORMWATER OUTLET PROTECTION SPECIFICATIONS:

STORMWATER OUTLETS WILL NOT BE AFFECTED IN THIS PROJECT.

B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

GRADE STABILIZATION WILL BE REQUIRED AS NEEDED DURING CONSTRUCTION. GRADE STABILIZATION REQUIREMENTS ARE ESTABLISHED IN DS-04, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT).

SEEDING AND MULCHING OR TEMPORARY SEEDING WILL BE PERFORMED ON AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION. TEMPORARY SEEDING WILL TAKE PLACE AS SOON AS PRACTICABLE AFTER DISTURBED AREAS HAVE BEEN RESTORED TO THEIR REQUIRED GRADE OR HAVE BEEN DISTURBED AND NOT WORKED FOR SEVEN (7) DAYS OR MORE. BIODEGRADABLE MATTING OR NETTING MAY BE USED TO STABILIZE SOILS ON SLOPED AREAS AND SOME RECENTLY PLANTED AREAS TO PROTECT SEEDLINGS UNTIL THEY HAVE BECOME ESTABLISHED.

B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS:

THE FOLLOWING METHODS WILL BE USED FOR DEWATERING:

EQUIPMENT OPERATORS ARE PROHIBITED FROM DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, UNLESS SUCH WATERS ARE FIRST EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES.

EXAMPLES OF APPROPRIATE CONTROL MEASURES INCLUDE TEMPORARY SEDIMENT BASINS OR SEDIMENT TRAPS, SEDIMENT SOCKS, DEWATERING TANKS AND BAGS, OR FILTRATION SYSTEMS (E.G., BAG OR SAND FILTERS) THAT ARE DESIGNED TO REMOVE SEDIMENT. UNCONTAMINATED, NON-TURBID DEWATERING WATER CAN BE DISCHARGED WITHOUT BEING ROUTED TO A CONTROL.

AT A MINIMUM, THE FOLLOWING DISCHARGE REQUIREMENTS MUST BE MET FOR DEWATERING ACTIVITIES:

1. ALLOW NO DISCHARGE OF VISIBLE SEDIMENTS OR SOLIDS.

2. AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED, UTILIZE VELOCITY DISSIPATION DEVICES.

3. DEWATERING PRACTICES MUST INVOLVE THE IMPLEMENTATION OF APPROPRIATE CONTROL MEASURES AS APPLICABLE (I.E., CONTAINMENT AREAS FOR DEWATERING EARTH MATERIALS, PORTABLE SEDIMENT TANKS AND BAGS, PUMPING SETTLING BASINS, AND PUMP INTAKE PROTECTION).

B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES:

NO WORK WITHIN WATERBODIES IS PROPOSED AS PART OF THIS PROJECT.

B11 MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL MONITOR AND MANAGE PROJECT CONSTRUCTION AND STORMWATER ACTIVITIES THROUGH THE ADMINISTRATION OF A SELF-MONITORING PROGRAM (SMP). A TRAINED INDIVIDUAL SHALL SUBMIT WEEKLY SMP REPORTS, AND EVENT INSPECTION REPORTS AS REQUIRED WITHIN 24 HOURS OF EVERY ½" RAIN EVENT. INSPECTION WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL STRUCTURES TO ENSURE INTEGRITY AND EFFECTIVENESS. INSPECTIONS WILL ALSO BE PROVIDED FOR ALL DISTURBED AREAS THAT HAVE NOT ACHIEVED FINAL STABILIZATION, AND AT ALL POINTS OF DISCHARGE FROM THE CONSTRUCTION SITE. REFER TO DS-04, "TEMPORARY EROSION CONTROL (UNDER SEPARATE ATTACHMENT) FOR REQUIREMENTS REGARDING THE SMP REPORTS AND PROJECT MANAGEMENT LOG.

B12 PLANNED CONSTRUCTION SEQUENCE THAT DESCRIBES THE IMPLEMENTATION OF STORMWATER QUALITY MEASURES IN RELATION TO LAND DISTURBANCE:

A PRE-CONSTRUCTION MEETING WILL BE REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND ANY LAND DISTURBANCE ACTIVITY. ATTENDEES TO THE PRE-CONSTRUCTION MEETING WILL INCLUDE REPRESENTATIVES OF THE CONTRACTOR, OWNER, ENGINEER, THE GRANT COUNTY SOIL AND WATER CONSERVATION DISTRICT (SWCD) SHALL BE PROVIDED WITH A 48-HOUR NOTICE PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY. REFER ALSO TO DS-04, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT), WHICH IS INCLUDED AS A PART OF THE CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT.

THE NOTICE OF INTENT AND THE LOCATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE POSTED AT THE JOB SITE. THERE WILL BE FUEL CONTAINMENT AND CONCRETE WASHOUT PROVIDED ON-SITE, IF APPLICABLE.

PROJECT SEQUENCING WILL GENERALLY FOLLOW THE FOLLOWING STEPS:

1. INSTALL CONSTRUCTION ENTRANCES.

2. INSTALL PERIMETER PROTECTION (SILT FENCE, CHECK DAMS, COIR LOGS, FILTER BERM, INLET PROTECTION).

3. TEMPORARY SEED AS NEEDED PER SPECIFICATIONS.

4. REMOVE TEMPORARY EROSION CONTROL MEASURES AS THE PERMANENT MEASURES ARE ESTABLISHED.

B13 PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT:

ALL PROPOSED IMPROVEMENTS ARE TAKING PLACE ON RIGHTS OF WAY, UTILITY EASEMENTS, OR LAND OWNED BY THE TOWN. THE PROJECT AREA AND INDIVIDUAL AREA EROSION CONTROL IS DEPICTED IN PLANS.

B14 MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1:

AS DESCRIBED DS-04, "TEMPORARY EROSION CONTROL" (LOCATED UNDER SEPARATE ATTACHMENT), THE CONTRACTOR WILL BE REQUIRED TO INSPECT EQUIPMENT REGULARLY TO AVOID UNNECESSARY LEAKS OR SPILLS. THE CONTRACTOR WILL ALSO BE REQUIRED TO PROVIDE SPILL KITS AND EQUIPMENT TO CONTAIN AND CLEAN UP ANY PETROLEUM PRODUCTS OR OTHER UNDESIRABLE SPILLS WHICH MAY OCCUR DURING CONSTRUCTION.

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO ENSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

IF A SPILL DOES OCCUR, SPILL REPORTING AND NOTIFICATION REQUIREMENTS WILL BE UNDERTAKEN IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND STATE REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RESPONSE PROCEDURES THAT WILL MINIMIZE GROUNDWATER AND SURFACE WATER IMPACTS.

CONTACT INFORMATION FOR LOCAL AND STATE AGENCIES TO BE CONTACTED IN THE EVENT OF A SPILL ARE AS FOLLOWS:

GRANT COUNTY SOIL & WATER CONSERVATION DISTRICT
211 EAST DREXEL PARKWAY
RENSSELAER, IN 479783
219-866-8008 X3

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY
EMERGENCY RESPONSE AND SPILL REPORTING SECTION
PHONE: 1-888-233-7745

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER QUALITY
INDIANA GOVERNMENT CENTER NORTH
100 N. SENATE AVENUE, ROOM N1255
INDIANAPOLIS, INDIANA 46204
PHONE: 1-888-233-7745

INDIANA DEPARTMENT OF NATURAL RESOURCES
DISTRICT 4 HEADQUARTERS
PHONE: 765-649-1062

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC MANAGEMENT CENTER
PHONE: 317-899-8690

B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY:

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO ENSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

CONCRETE WASHOUT AREA LOCATIONS ARE SHOWN ON THE PLANS.

STORMWATER POLLUTION PREVENTION - POST-CONSTRUCTION COMPONENT (SECTION C)

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:

NO CHANGE IN LAND USE IS PROPOSED AS PART OF THE PROJECT.

POTENTIAL POLLUTANTS FROM THIS PROJECT AFTER CONSTRUCTION IS COMPLETED INCLUDE:

- SEDIMENT
- HYDROCARBONS
- CONSTRUCTION LITTER

SEDIMENTS:

SEDIMENT POLLUTION IS A RESULT OF EROSION WHICH CAN BE TRIGGERED BY NATURAL CAUSES OR HUMAN ACTIVITY. FOR THIS PROJECT, SEDIMENTATION MAY OCCUR DUE TO RUNOFF FROM EXCAVATED TRENCH AREAS. SEDIMENT POLLUTION MAY ALSO BE CAUSED BY ON-SITE STORAGE OF EXCAVATED MATERIALS, BACKFILL MATERIALS, AND CONSTRUCTION SPOIL AREAS.

HYDROCARBONS:

LEAKAGE AND SPILL POTENTIAL EXISTS FROM ITEMS SUCH AS GASOLINE, OIL, GREASE, VEHICLE BRAKE AND TRANSMISSION FLUIDS, ANTIFREEZE, AND COOLANTS.

CONSTRUCTION LITTER:

LITTER MAY BE GENERATED BY IMPROPERLY DISCARDED ITEMS SUCH AS PLASTIC BOTTLES OR ALUMINUM CANS, BAGS, PRODUCT PACKING MATERIALS, GENERAL TRASH, GARBAGE, AND SMOKING PARAPHERNALIA.

STORMWATER POLLUTION PREVENTION - POST-CONSTRUCTION COMPONENT (SECTION C)

C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

PERMANENT SEEDING AND EROSION CONTROL BLANKETS ARE THE ONLY POST CONSTRUCTION STORMWATER QUALITY MEASURES THAT ARE ANTICIPATED TO BE NEEDED. REQUIREMENTS FOR PERMANENT SEEDING ARE REFERENCED IN WM-24 "SEEDING AND SODDING" (UNDER SEPARATE ATTACHMENT).

VEGETATED AREAS:

PERMANENT SEEDING WILL BE APPLIED IMMEDIATELY AFTER THE FINAL DESIGN GRADES ARE ACHIEVED ON PORTIONS OF THE SITE BUT NO LATER THAN SEVEN (7) DAYS AFTER CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED. AFTER THE ENTIRE SITE IS STABILIZED, ANY SEDIMENT THAT HAS ACCUMULATED THAT HAS NOT BEEN INCORPORATED INTO THE FINAL GRADING OPERATIONS WILL BE REMOVED AND HAULED OFF-SITE FOR DISPOSAL AT AN APPROVED LANDFILL. CONSTRUCTION DEBRIS, TRASH AND TEMPORARY EROSION CONTROL STRUCTURES WILL BE REMOVED, AND ANY AREAS DISTURBED DURING REMOVAL WILL BE SEEDED IMMEDIATELY.

NATIVE GRASSES WILL BE USED FOR RESTORATION OF VEGETATED AREAS. ALL VEGETATED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE REQUIRED TO BE RESTORED. THE VEGETATIVE COVER SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SHALL BE:

(a) EFFECTIVE AND PERMANENT.
(b) AT LEAST EQUAL IN EXTENT OF COVER TO THE NATURAL VEGETATION OF THE AREA; AND
(c) CAPABLE OF STABILIZING THE SOIL SURFACE TO CONTROL EROSION.
(d) COMPATIBLE WITH THE LOCAL LAND USE.
(e) HAVE THE SAME SEASONAL GROWTH CHARACTERISTICS AS THE ORIGINAL VEGETATION.
(f) BE CAPABLE OF SELF-REGENERATION AND PLANT SUCCESSION.
(g) BE COMPATIBLE WITH THE PLANT AND ANIMAL SPECIES OF THE AREA.

SPOIL AREAS AND IMPORTED BACKFILL MATERIALS MUST BE ALWAYS COVERED AND PLACED AS FAR AWAY AS PRACTICABLE FROM STORMWATER QUALITY MEASURES. PESTICIDES, HERBICIDES, AND FERTILIZERS ARE TO BE APPLIED IN MINIMAL AMOUNTS. THESE ITEMS ARE NOT TO BE APPLIED WITHIN 24 HOURS OF A FORECASTED RAIN EVENT.

PESTICIDE AND FERTILIZER APPLICATORS WILL BE EXPECTED TO MAXIMIZE THE BENEFITS OF THE PRODUCTS THROUGH SOUND MANAGEMENT WHILE REDUCING ENVIRONMENTAL RISKS. APPLICATORS SHOULD TAKE ALL THE NECESSARY PREVENTIVE MEASURES TO ENSURE THAT PESTICIDES STAY ON-SITE. CAREFUL TRANSPORTATION, SECURE STORAGE, PROPER DISPOSAL OF CONTAINERS, AND SPILL PREVENTION ARE BASIC ELEMENTS OF SAFE PESTICIDE USE WHICH MUST BE IMPLEMENTED. THE APPLICATOR WILL ALSO BE EXPECTED TO BE AWARE OF THE LOCATION OF SENSITIVE AREAS, INCLUDING SINKHOLES, DEPRESSIONS, WELLS, STREAMS, AND SURFACE WATERS. A BUFFER ZONE SHOULD BE IN EFFECT WHEN APPLYING PESTICIDES AROUND THESE SITES.

FERTILIZER APPLICATORS WILL BE REQUIRED TO UNDERSTAND AND FOLLOW PRODUCT LABELS TO MINIMIZE RISKS TO HUMAN HEALTH AND THE ENVIRONMENT. CHEMICALS WITH LOW WATER SOLUBILITY RATES SHOULD BE USED. THE CONTAINERS HOLDING FERTILIZERS AND HERBICIDES ARE TO BE EMPTIED COMPLETELY BEFORE DISPOSAL.

HYDROCARBONS AND HAZARDOUS MATERIALS:

HYDROCARBONS, SUCH AS FUELS AND OILS WILL BE USED FOR THE EXCAVATION EQUIPMENT AND TRUCKS. APPROPRIATE STORAGE AREAS FOR FUELS AND HYDROCARBONS WILL BE PROVIDED. LUBRICATING OILS AND GREASES FOR VEHICLES AND GENERATORS WILL BE STORED UNDER COVER, IN DRUMS OR APPROPRIATE CONTAINERS IN A DESIGNATED AREA.

THE FUEL AND CHEMICAL STORAGE AND HANDLING FACILITIES WILL BE INSPECTED ON A REGULAR BASIS AND MAINTAINED TO ENSURE COMPLIANCE WITH APPLICABLE STANDARDS. THE CONTRACTOR SHALL DESIGNATE THE RESPONSIBLE PERSONNEL WHO WILL HAVE ACCESS TO SAFETY EQUIPMENT REQUIRED FOR THE CORRECT HANDLING OF HAZARDOUS GOODS AND ACCESS TO STRATEGICALLY PLACED SPILL STATIONS EQUIPPED WITH THE NECESSARY EQUIPMENT FOR CLEANING UP ANY SPILLS.

THE CONTRACTOR SHALL PROVIDE A PROCEDURE FOR CLEAN-UP AND REPORTING, IN THE EVENT OF A SPILL. ANY SPILLS WILL BE CLEANED UP IMMEDIATELY. CONTAMINATED RUNOFF AND CONTAMINATED SOIL WILL BE COLLECTED AND REMEDIATED ON SITE OR TRANSPORTED TO A SUITABLE FACILITY FOR DISPOSAL.

A CLOSE-OUT PROCEDURE WILL BE USED IN THE EVENT OF SPILLS, TO ASSESS WHETHER ANY CHANGE TO PROCEDURES, EQUIPMENT OR RESPONSIBILITY IS REQUIRED, TO MINIMIZE THE FUTURE LIKELIHOOD OF EVENT RECURRENCE.

POST-CONSTRUCTION STORMWATER JOURNAL:

FOLLOWING COMPLETION OF CONSTRUCTION, INSPECTIONS SHOULD BE PROVIDED ANNUALLY AND AFTER EACH MAJOR RAINFALL EVENT OF 4" OR GREATER. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THESE INSPECTIONS FOR A ONE-YEAR WARRANTY PERIOD FOLLOWING THE ISSUANCE OF A CERTIFICATE OF SUBSTANTIAL COMPLETION FOR THE PROJECT. ALL EROSION CONTROL MEASURES SHOWING SIGNS OF DAMAGE OR FAILURE MUST BE CORRECTED. SEDIMENT ACCUMULATIONS ARE TO BE RETURNED TO THEIR SOURCE. CORRECTIVE MEASURES MUST BE TAKEN TO PREVENT FURTHER SEDIMENT ACCUMULATION. MEASURES SUCH AS SEEDING, SOD, EROSION CONTROL BLANKETS, AND RELATED METHODS ARE TO BE INCORPORATED AS NEEDED TO PREVENT SEDIMENT ACCUMULATIONS WITHIN THE PROJECT AREA.

POST-CONSTRUCTION ESTIMATES OF WATER QUALITY VOLUME:

WHEN IMPERVIOUS SURFACES ARE ADDED TO A PROJECT SITE, POST-CONSTRUCTION STORMWATER QUALITY MEASURES MUST BE SIZED TO TREAT THE WATER QUALITY VOLUME (WQV) OR WATER QUALITY FLOW RATES. INDIANA UTILIZES A ONE (1) INCH PRECIPITATION DEPTH TO CALCULATE WQV, WHICH IS A SUFFICIENT DEPTH TO MINIMIZE POLLUTANTS AND REDUCE CHANNEL AND STREAM BANK EROSION.

THE PREFERRED EQUATION TO CALCULATE WATER QUALITY VOLUME (WQV) IS:

WQV = RV X A X P

WHERE:

RV = RUN-OFF COEFFICIENT, RV = 0.05 + 0.9I

THE INTENDED PROJECT IS NOT ANTICIPATED TO CHANGE GENERAL SURFACE CONDITIONS. LAND USE IN THE PROJECT AREA IS DEVELOPED AND THE PROPOSED IMPROVEMENTS WILL NOT CHANGE LAND USE. A SMALL AMOUNT OF IMPERVIOUS SURFACE IS BEING ADDED AT THE SITE OF THE PROPOSED ELEVATED STORAGE TANK (IN THE FORM OF A GRAVEL OR ASPHALT DRIVE). GENERALLY, SURFACES IN THE PROJECT AREA WILL BE RESTORED TO EXISTING CONDITIONS OR BETTER.

PRE-CONSTRUCTION WQV FOR THE PROJECT AREA:

I = 0.20*

*APPROXIMATED FROM AERIAL IMAGES:

ROJECT AREA IS APPROXIMATELY 20% ROADWAYS & LOW-DENSITYDEVELOPED SPACE.

$RV = 0.05 + 0.9(0.20) = 0.23_P$

WQV = 0.23 X 31.6 ACRES X 1.0 INCH = 7.63 ACRE-INCH

POST-CONSTRUCTION WQV FOR THE PROJECT AREA:

I = 0.2288

*ADDITIONAL IMPERVIOUS SURFACE=0.91 ACRES=2.28% OF PROJECT AREA.

$RV = 0.05 + 0.9(0.2288) = 0.26$

WQV = 0.26 X 31.6 ACRES X 1.0 INCH = 8.12 ACRE-INCH

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SOUTH BEND, IN.

ROBERT M. BELLOCQ
REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP
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STORMWATER POLLUTION PREVENTION PLAN NOTES

Drawing No: **EC2**

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STORMWATER POLLUTION PREVENTION - POST-CONSTRUCTION COMPONENT (SECTION C)

C3 PLAN DETAILS FOR EACH STORMWATER QUALITY MEASURE:

PERMANENT SEEDING IS THE ONLY POST-CONSTRUCTION MEASURE ANTICIPATED FOR THIS PROJECT. PERMANENT SEEDING WILL BE PROVIDED FOR ALL PORTIONS OF THE PROJECT WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES AND WHICH ARE NOT COVERED BY PERMANENT RIGID PAVEMENT OR AGGREGATE SURFACE. SILT FENCING AND OTHER EROSION PROTECTION MEASURES WILL NOT BE REMOVED UNTIL THE PERMANENT SEEDING HAS BEEN ESTABLISHED. PLEASE REFER TO THE PLANS, AS WELL AS DS-04, "TEMPORARY EROSION CONTROL" AND WM-24 "SEEDING AND SODDING" (BOTH UNDER SEPARATE ATTACHMENT).

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

POST-CONSTRUCTION SEQUENCING MEASURES FOR THIS PROJECT WILL BE AS FOLLOWS:

1. TEMPORARY PLANTINGS WILL BE PROVIDED IN CRITICAL AREAS DEVOID OF VEGETATION AND SUBJECT TO EROSION. SUCH TEMPORARY PLANTINGS MAY BE NECESSARY TO PROTECT AN AREA WHEN PREPARING FOR WINTER SHUT DOWN OR TO PROVIDE COVER WHEN PERMANENT SEEDLINGS ARE LIKELY TO FAIL DUE TO AN EXTENDED PERIOD OF HEAT OR DROUGHT. THE INTENT OF THESE PLANTINGS IS TO PROVIDE PROTECTIVE COVER WHILE WAITING FOR OPTIMAL PLANTING CONDITIONS.

2. REMOVAL AND CLEANUP OF ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCES, INLET AND CULVERT PROTECTION AREAS AND CHECK DAMS.

3. THE ENTIRE CONSTRUCTION AREA IS TO BE INSPECTED AND CLEANED, INCLUDING THE COLLECTION AND DISPOSAL OF CONSTRUCTION TRASH AND DEBRIS.

4. PERMANENT SEEDING AND MULCHING WILL BE INSTALLED IMMEDIATELY AFTER ACHIEVING FINAL GRADE OR WITHIN SEVEN (7) DAYS OF INACTIVITY. IF NECESSARY, A TEMPORARY STABILIZATION PRACTICE WILL BE EMPLOYED UNTIL THE NEXT PRIME SEEDING PERIOD, AS DESCRIBED IN DS-04, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT).

5. A FINAL SITE INSPECTION WILL TAKE PLACE TO ASSURE THAT ALL REQUIREMENTS OF THE SWPPP, CONSTRUCTION DRAWINGS, AND SUPPORTING DOCUMENTS HAVE BEEN FULFILLED.

C5 MAINTENANCE GUIDELINES FOR PROPOSED POST-CONSTRUCTION WATER QUALITY MEASURES:

IT SHOULD BE NOTED THAT THIS PROJECT PRIMARILY INVOLVES OPEN TRENCH CUTTING FOR THE INSTALLATION OF GRAVITY SEWER PIPE AND FORCE MAIN. ALL DISTURBED AREAS NOT COVERED BY BITUMINOUS OR AGGREGATE PAVEMENT ARE TO BE PROVIDED WITH SEEDING AND MULCHING TO ESTABLISH A PERMANENT VEGETAL COVER.

MAINTENANCE OF STORMWATER QUALITY CONTROL MEASURES

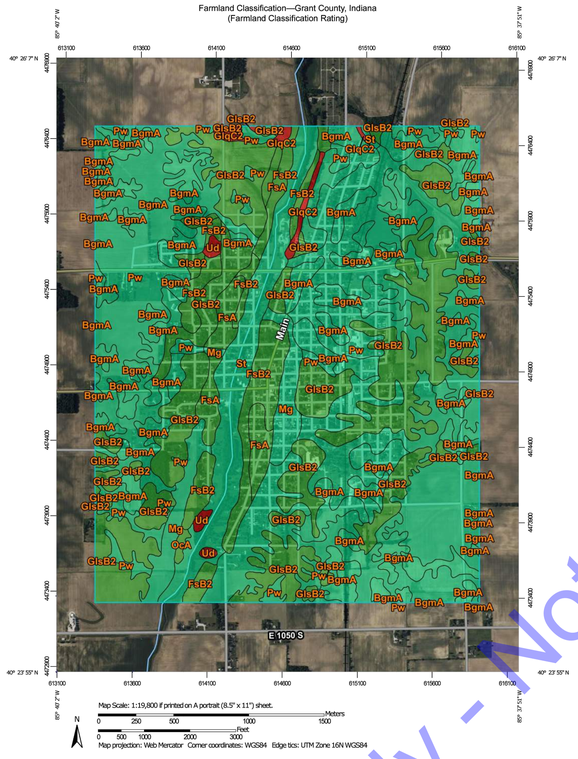
ALL STORMWATER QUALITY CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED. THIS INCLUDES SILT FENCING, INLET PROTECTION, AND CULVERT ENTRANCE CHECK DAM STRUCTURES. FABRIC TEARS, POST FAILURES, VEHICLE DAMAGE, OR UNDERMINING OF THE SILT FENCE ARE TO BE REPAIRED IMMEDIATELY. SEDIMENT BUILDUP ALONG SILT FENCES WILL BE REMOVED IF IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE ABOVE THE GROUND ELEVATION.

VEGETATED AREAS

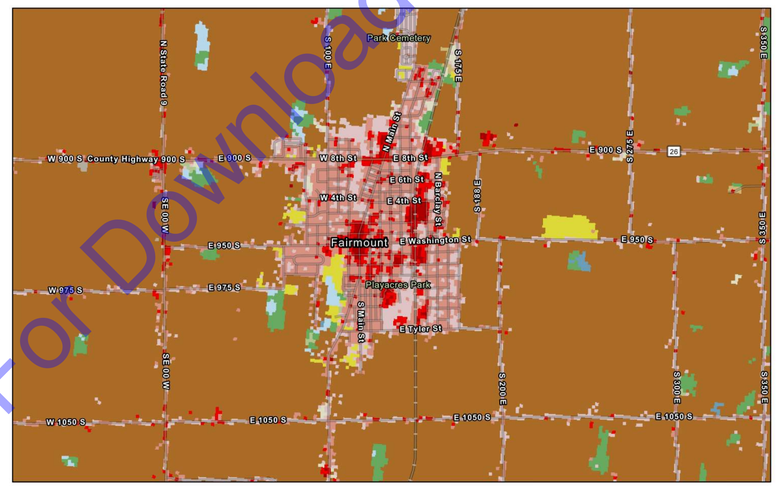
VEGETATED AREAS WITHIN THE PROJECT BOUNDARIES MUST BE MAINTAINED ON A REGULAR BASIS DURING THE ACTIVE GROWING SEASON. MAINTENANCE ACTIVITIES WILL INCLUDE INSPECTION OF SPARSELY SEEDED AREAS, AND RESEEDING AREAS WHICH HAVE BEEN DAMAGED OR WHICH HAVE NOT EXHIBITED A SUCCESSFUL AND HARDY STAND OF VEGETAL COVER. FERTILIZATION AND WATERING REQUIREMENTS ARE PROVIDED IN WM-24 "SEEDING AND SODDING" (UNDER SEPARATE ATTACHMENT).

C6 ENTITY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES:

THE TOWN OF FAIRMOUNT WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF POST-CONSTRUCTION STORMWATER MEASURES.

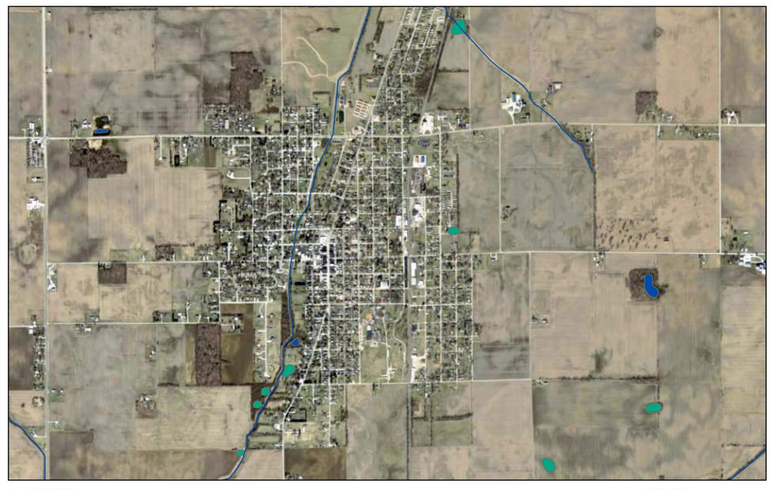


SOILS MAP



LAND USE MAP

FLOODPLAIN MAP



SURFACE WATERS MAP

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CROWN POINT, IN.
BOWLING GREEN, KY.
SOUTH BEND, IN.

ROBERT M. BELLICH
REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

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STORMWATER POLLUTION PREVENTION PLAN FIGURES

Drawing No: **EC3**

Sheet: 36 OF 57

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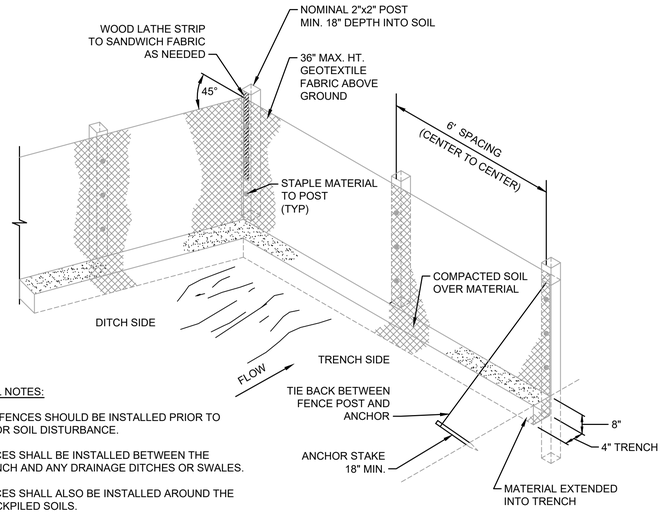
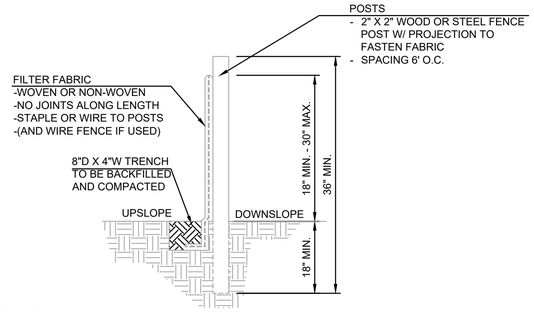


GENERAL NOTES:

1. SILT FENCES SHOULD BE INSTALLED PRIOR TO MAJOR SOIL DISTURBANCE.
2. FENCES SHALL BE INSTALLED BETWEEN THE TRENCH AND ANY DRAINAGE DITCHES OR SWALES.
3. FENCES SHALL ALSO BE INSTALLED AROUND THE STOCKPILED SOILS.
4. THE GEOTEXTILE SHALL BE FREE FROM DEFECTS, TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION, STORAGE, OR INSTALLATION.
5. TIE BACKS SHALL BE PLACED AS REQUIRED.

SILT FENCE DETAIL

NOT TO SCALE

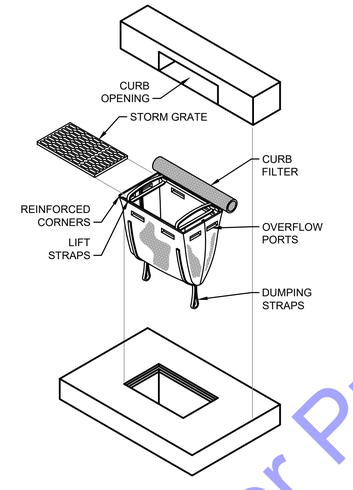


INSTALLATION:
1. THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
2. FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

MAINTENANCE:
1. INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT.
2. IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
5. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

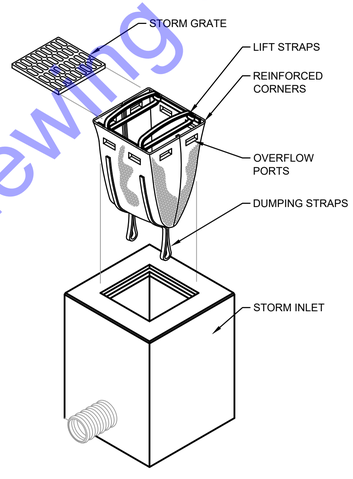
GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND LOCAL EROSION AND SEDIMENT CONTROL ORDINANCE, OR SWCD.
2. THE NOTICE OF INTENT (NOI) AND PUBLIC NOTICE FOR THE PROJECT SHALL BE POSTED ON A SIGN INSTALLED AT OR NEAR THE SITE CONSTRUCTION TRAILER. THE NOI SHALL LIST THE CONTACT INFORMATION FOR THE SITE CONTACT PERSON. THE SIGN AND INFORMATION SHALL BE MAINTAINED AND REMAIN LEGIBLE THROUGHOUT CONSTRUCTION.
3. A COPY OF THIS EROSION AND SEDIMENT CONTROL PLAN AND THE EROSION AND SEDIMENT CONTROL REPORT SHALL BE AVAILABLE AT THE PROJECT SITE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
4. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE SO THEY WILL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WIND, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED.
5. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEAR OF ACCUMULATED SEDIMENT. ALL SEDIMENT THAT IS CLEARED MUST BE RETURNED TO THE LIKELY POINT OF ORIGIN OR OTHER SUITABLE LOCATION. CLEARING OF LARGE AMOUNTS OF SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER.
6. MINIMIZE THE EXPOSURE OF BARE EARTH BY LIMITING THE WORK AREA TO THAT NECESSARY TO PERFORM THE WORK, AND BY PROPER SCHEDULING OF MANPOWER AND EQUIPMENT.
7. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, CLEANED, AND MAINTAINED FOLLOWING EACH STORM EVENT.
8. WHEREVER POSSIBLE, MAINTAIN EXISTING VEGETATIVE COVER. USE NON-VEGETATIVE MATERIAL INCLUDING MULCH, EROSION BLANKETS, OR STONE TO CONTROL EROSION FROM DISTURBED AREAS.
9. A LOG SHALL BE MAINTAINED OF ALL INSPECTIONS (WEEKLY, AND FOLLOWING STORM EVENTS), MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL MEASURES. THE LOG SHALL BE MAINTAINED ON SITE AND BE AVAILABLE UPON REQUEST TO THE OWNERS REPRESENTATIVES AND THE OPERATING AUTHORITIES HAVING JURISDICTION OVER THE SITE.



INSERT (BASKET) CURB INLET PROTECTION DETAIL

NOT TO SCALE



INSERT (BASKET) INLET PROTECTION DETAIL

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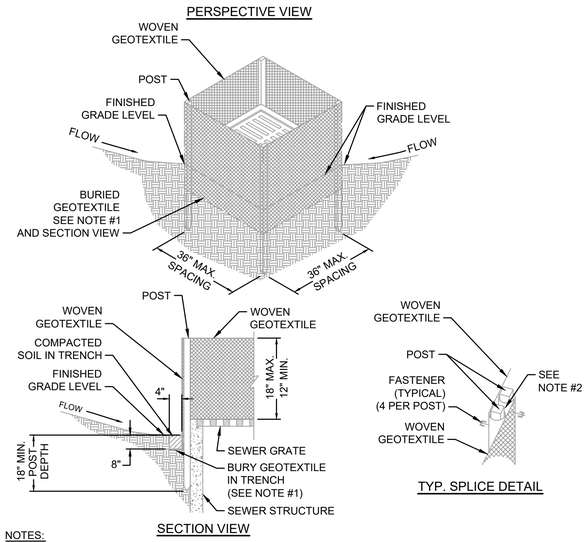

NOTES:
1. GEOTEXTILE FABRIC LAID ON DOWN-SLOPE SIDE AND BOTTOM OF TRENCH ALONG FULL PERIMETER OF SEWER STRUCTURE. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS.
2. IF SPLICING IS NECESSARY, FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO CREATE A SEAMLESS JOINT AND PREVENT SILT-LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.
3. PREFABRICATED UNITS MAY BE USED WITH PRIOR APPROVAL FROM PROJECT ENGINEER.

YARD INLET PROTECTION DETAIL

NOT TO SCALE

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REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

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SYSTEM IMPROVEMENTS

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EROSION CONTROL DETAILS

Drawing No: **EC4**

Sheet: 37 OF 57

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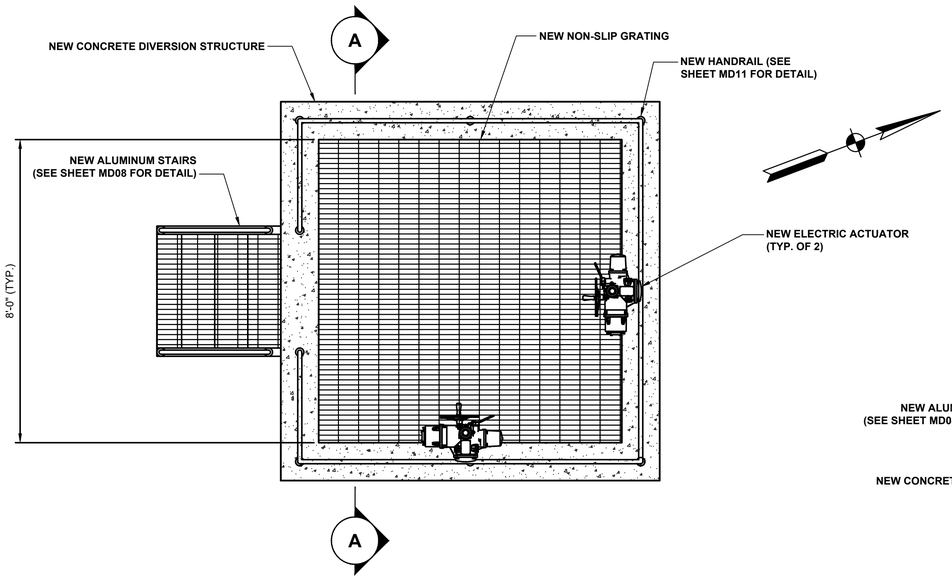
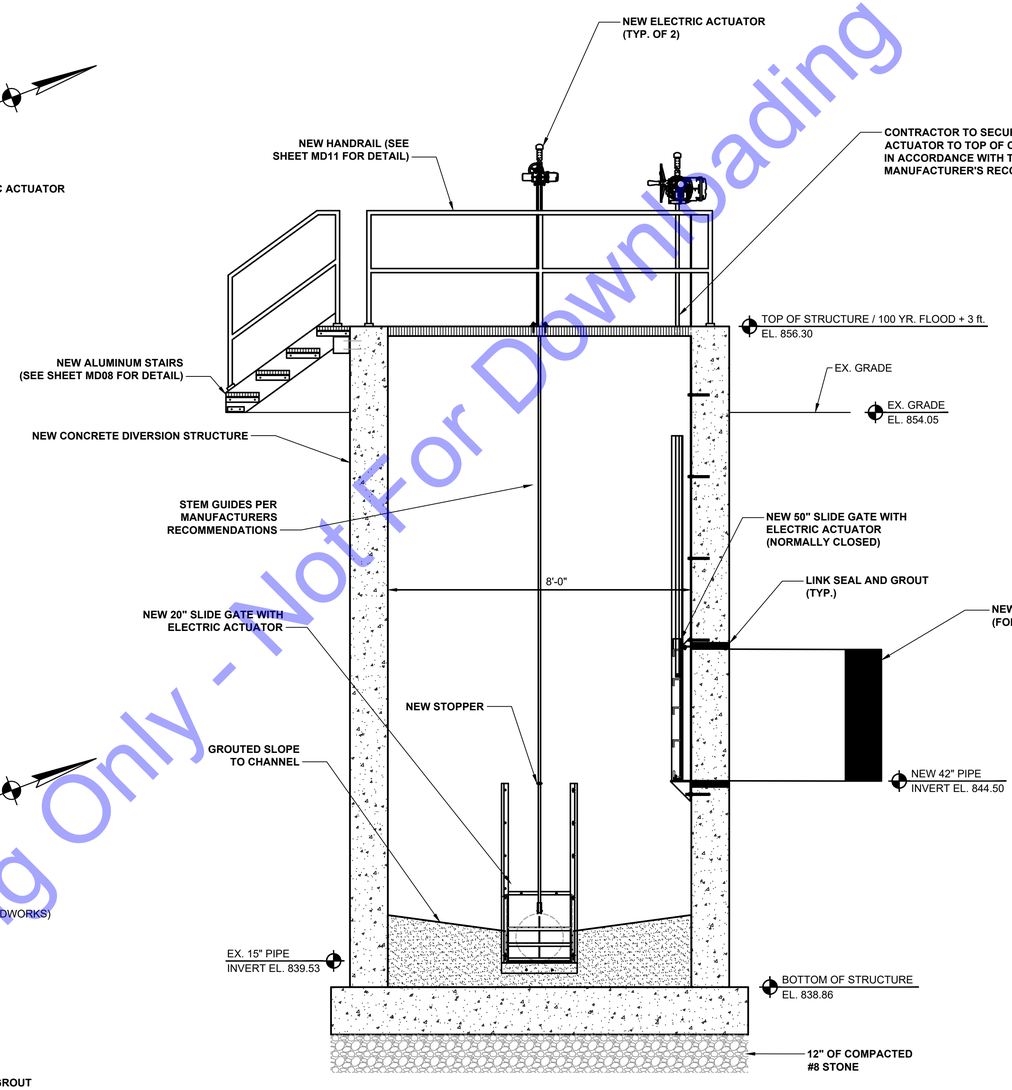
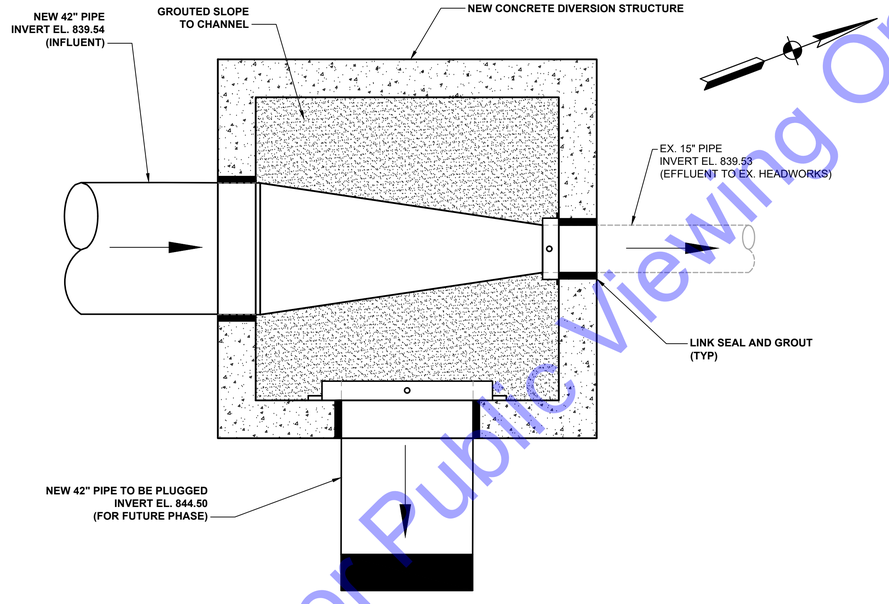


NEW DIVERSION STRUCTURE UPPER LEVEL PLAN VIEW

SCALE: 1/2"=1'-0"

0 1' 2' 4'





NEW DIVERSION STRUCTURE LOWER LEVEL PLAN VIEW

SCALE: 1/2"=1'-0"

0 1' 2' 4'

SECTION VIEW A

SCALE: 1/2"=1'-0"

0 1' 2' 4'

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NEW DIVERSION STRUCTURE PLAN AND SECTION VIEWS

Drawing No: **MD01**

Sheet: 38 OF 57

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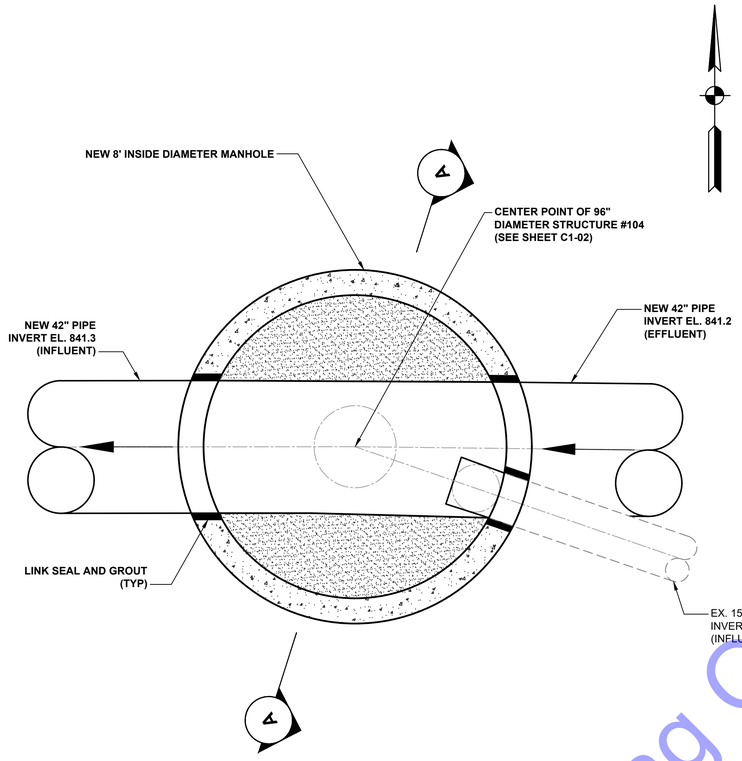
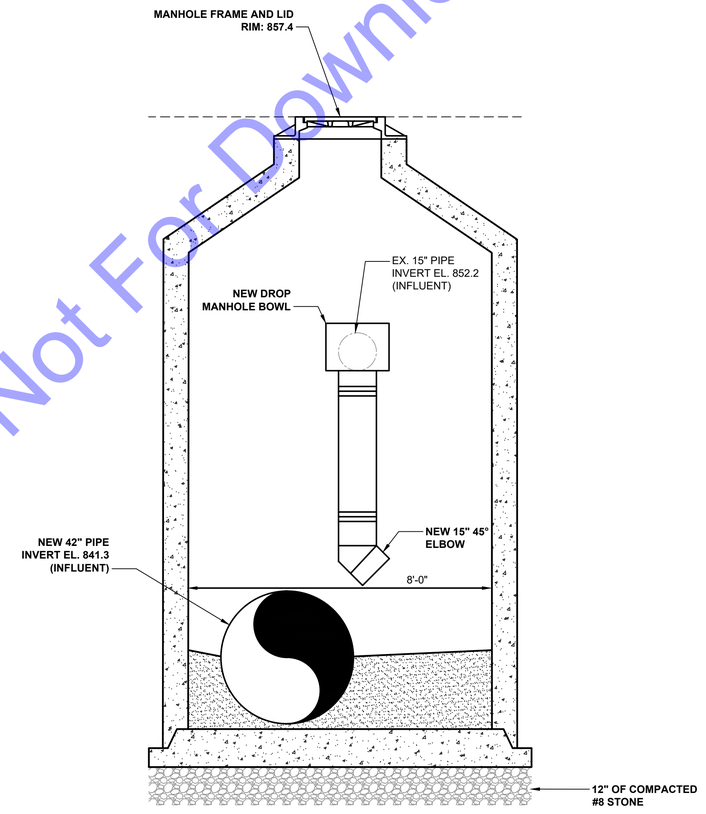


STRUCTURE #104 - PLAN VIEW

SCALE: 1/2"=1'-0"

0 1' 2' 4'



SECTION VIEW A

SCALE: 1/2"=1'-0"

0 1' 2' 4'

GENERAL NOTES:

1. EXISTING PIPE INVERT AND LOCATION ARE BASED ON BEST AVAILABLE DATA. INVERT AND LOCATION SHOWN MAY BE DIFFERENT THAN FOUND IN THE FIELD. SEE DS-# FOR VERIFICATION PROCEDURE.

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MANHOLE NO. 104 - DETAILS

Drawing No:

MD02

Sheet: 39 OF 57

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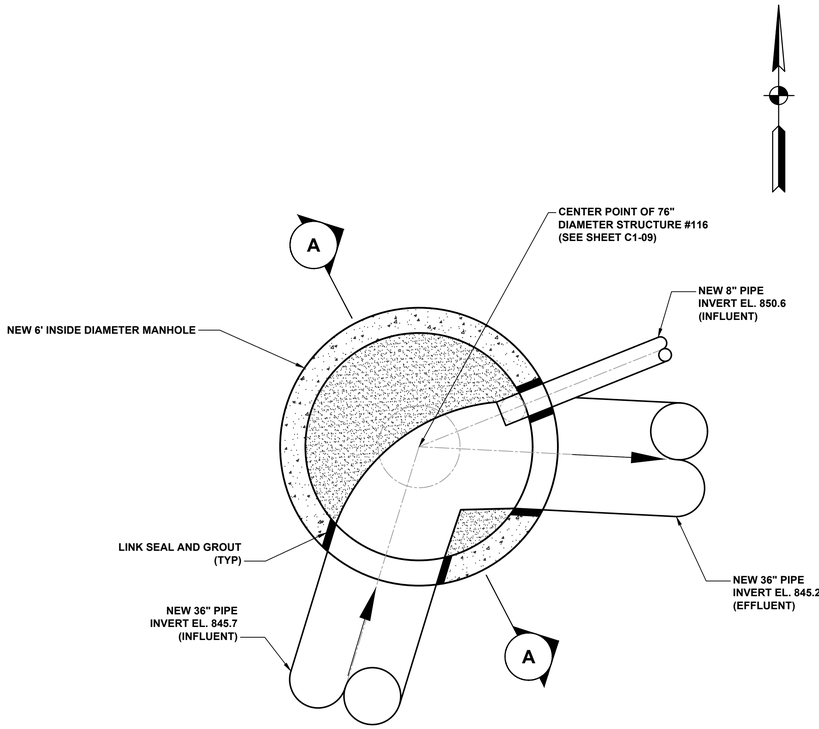
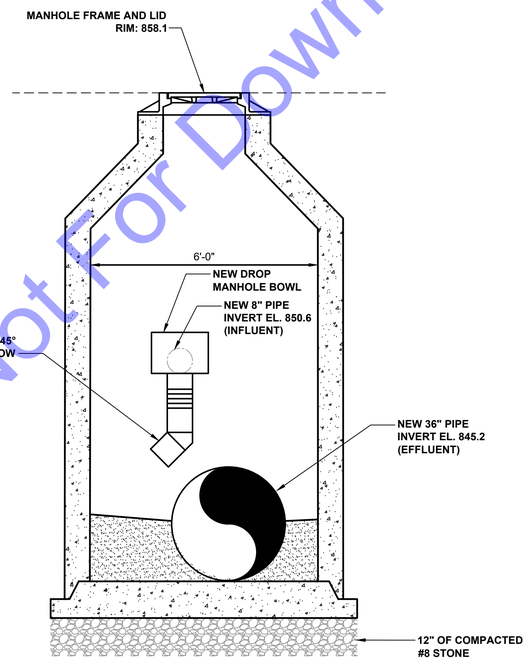


STRUCTURE #116 - PLAN VIEW

SCALE: 1/2"=1'-0"

0 1' 2' 4'



SECTION VIEW A

SCALE: 1/2"=1'-0"

0 1' 2' 4'

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MANHOLE NO. 116 - DETAILS

Drawing No: **MD03**

Sheet: 40 OF 57

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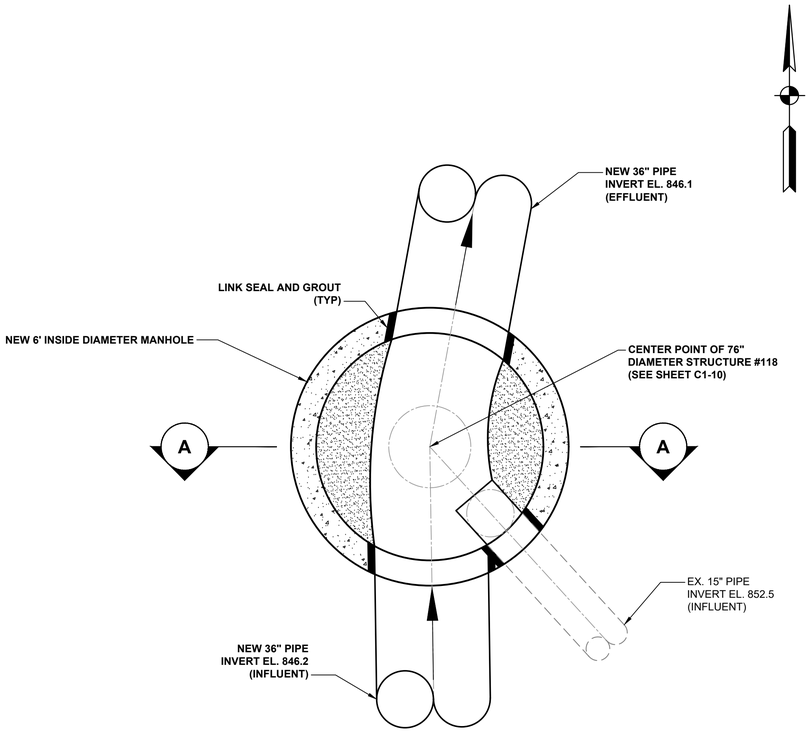
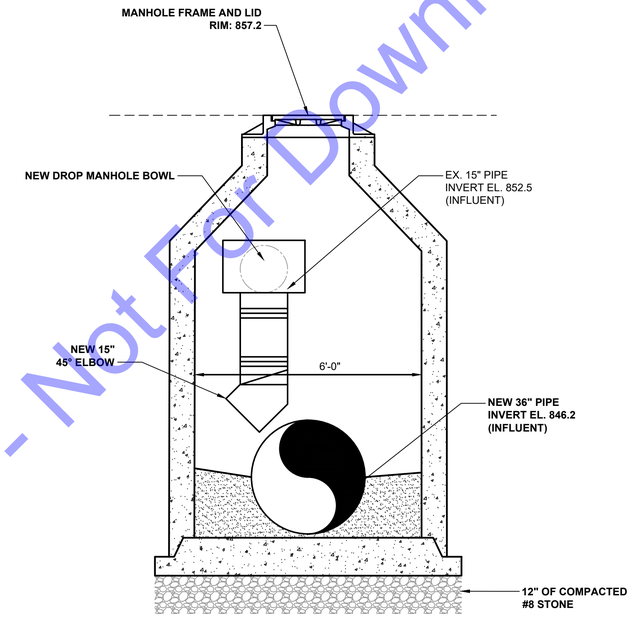


STRUCTURE #118 - PLAN VIEW

SCALE: 1/2"=1'-0"

0 1' 2' 4'



SECTION VIEW A

SCALE: 1/2"=1'-0"

0 1' 2' 4'

GENERAL NOTES:

1. EXISTING PIPE INVERT AND LOCATION ARE BASED ON BEST AVAILABLE DATA. INVERT AND LOCATION SHOWN MAY BE DIFFERENT THAN FOUND IN THE FIELD. SEE DS-# FOR VERIFICATION PROCEDURE.

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MANHOLE NO. 118 - DETAILS

Drawing No:

MD04

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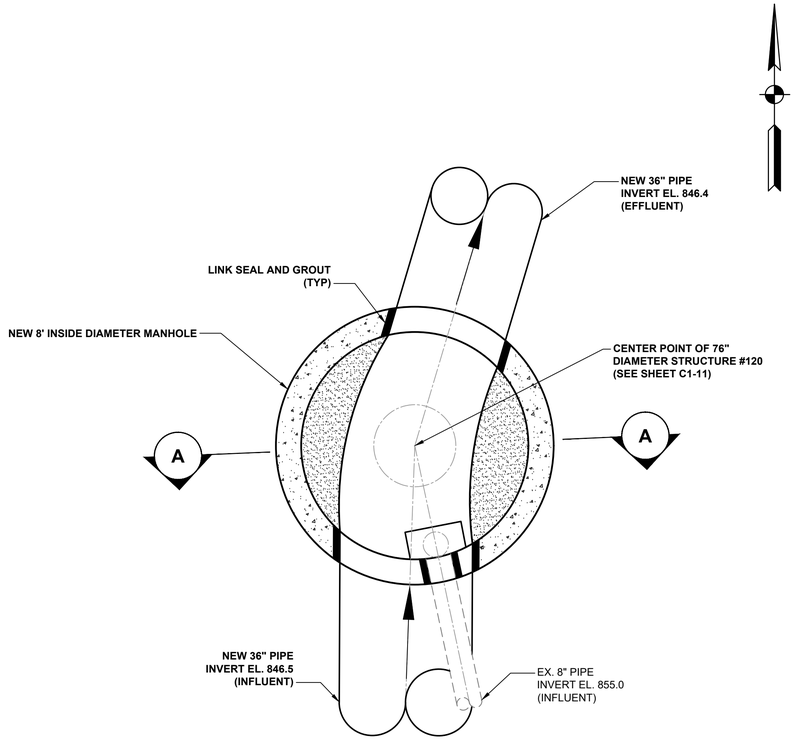
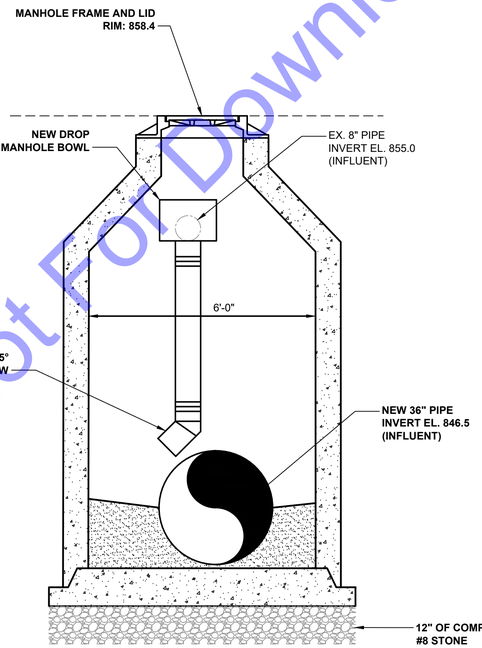


STRUCTURE #120 - PLAN VIEW

SCALE: 1/2"=1'-0"

0 1' 2' 4'



SECTION VIEW A

SCALE: 1/2"=1'-0"

0 1' 2' 4'

GENERAL NOTES:

1. EXISTING PIPE INVERT AND LOCATION ARE BASED ON BEST AVAILABLE DATA. INVERT AND LOCATION SHOWN MAY BE DIFFERENT THAN FOUND IN THE FIELD. SEE DS-# FOR VERIFICATION PROCEDURE.

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MANHOLE NO. 120 - DETAILS

Drawing No:
MD05
Sheet: 42 OF 57

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PROPOSED STRUCTURE DATA TABLE									Pipe #1 OUT/DOWNSTREAM					Pipe #2 UPSTREAM					Pipe #3					Pipe #4					Pipe #5				
Proposed Manhole #	Description	Additional Requirements	Plan Sheet #	Interceptor Line Designation	Surface Type	Manhole Diameter (ft)	Manhole Depth	Manhole TOC (ELEV)	Depth to Invert	Invert	Size (in)	Pipe 1 Direction	Access Point	Depth to Invert	Invert	Size (in)	Pipe 2 Direction	Access Point	Depth to Invert	Invert	Size (in)	Pipe 3 Direction	Access Point	Depth to Invert	Invert	Size (in)	Pipe 4 Direction	Access Point	Depth to Invert	Invert	Size (in)	Pipe 5 Direction	Access Point
101	NEW SAN. MH	Bolt Down Lid	C1-01	A	Grass	8	13.60	853.2	13.60	839.60	42	OUT	Diversion Structure	13.50	839.70	42	IN	NEW SAN. MH NO. 102	13.6	839.60	15	IN	EX. MH NO. 1002										
102	NEW SAN. DROP MH	Bolt Down Lid	C1-01	A	Grass	8	14.96	854.7	14.96	839.74	42	OUT	NEW SAN. MH NO. 101	13.97	840.73	42	IN	NEW SAN. MH NO. 103	5.8	848.9	24	IN	EX. MH NO. 1000	5.8	848.9	24	OUT	EX. MH NO. 1001					
103	NEW SAN. MH		C1-01	A	Grass	8	14.43	855.4	14.43	840.97	42	OUT	NEW SAN. MH NO. 102	14.33	841.07	42	IN	NEW SAN. MH NO. 104															
104	NEW SAN. DROP MH		C1-01/C1-02	A	Grass	8	16.17	857.4	16.17	841.23	42	OUT	NEW SAN. MH NO. 103	16.07	841.33	42	IN	NEW SAN. MH NO. 105	6.7	850.7	15	IN											
105	NEW SAN. MH	Internal lining	C1-02	A	Asphalt	8	17.72	859.1	17.72	841.38	42	OUT	NEW SAN. MH NO. 104	17.62	841.48	42	IN	NEW SAN. MH NO. 106															
106	NEW SAN. MH	Internal lining	C1-02	A	Asphalt	8	19.52	861.1	19.52	841.58	42	OUT	NEW SAN. MH NO. 105	19.42	841.68	42	IN	NEW SAN. MH NO. 107															
107	NEW SAN. MH	Internal lining	C1-02/C1-03	A	Asphalt	8	18.96	860.9	18.96	841.94	42	OUT	NEW SAN. MH NO. 106	18.86	842.04	42	IN	NEW SAN. MH NO. 108															
108	NEW SAN. DROP MH	Internal lining	C1-03/C1-04	A	Asphalt	8	17.65	860	17.65	842.35	42	OUT	NEW SAN. MH NO. 107	17.55	842.45	42	IN	NEW SAN. MH NO. 109	7	853	12	IN	EX. MH East of 6th St. Cottonwood St. Intersection										
109	NEW SAN. MH	Internal lining	C1-04/C1-05	A	Asphalt	8	17.53	860.3	17.53	842.77	42	OUT	NEW SAN. MH NO. 108	17.43	842.87	42	IN	NEW SAN. MH NO. 110															
110	NEW SAN. MH	Internal Lining	C1-05/C1-06	A	Asphalt	8	15.40	858.6	15.40	843.20	42	OUT	NEW SAN. MH NO. 109	15.3	843.30	42	IN	NEW SAN. MH NO. 111															
111	NEW SAN. MH	Internal lining	C1-06/C1-07	A	Asphalt	8	12.80	856.9	13.30	843.60	42	OUT	NEW SAN. MH NO. 112	12.8	844.10	36	IN	NEW SAN. MH NO. 110															
112	NEW SAN. DROP MH	Bolt Down Lid	C1-06/C1-07	A	Asphalt	8	856.50	856.5	12.39	844.11	36	OUT	NEW SAN. MH NO. 111	12.29	844.21	36	IN	NEW SAN. MH NO. 113	5.0	851.5	24	OUT	NEW SAN. MH 112	5.0	851.5	24	IN	EX. MH 3996	10.0	846.5	12	IN	NEW SAN. MH 122
112A	NEW SAN. MH	Bolt Down Lid	C1-06/C1-07	A	Asphalt	8	856.35	856.35	9.78	846.57	12	OUT	NEW SAN. MH NO. 112	9.68	846.67	8	IN	EX. MH 4650															
113	NEW SAN. MH	Bolt Down Lid	C1-07	A	Asphalt	6	856.10	856.1	11.70	844.4	36	OUT	NEW SAN. MH NO. 112	11.6	844.50	36	IN	NEW SAN. MH NO. 114															
114	NEW SAN. DROP MH	Internal lining	C1-07/C1-08	A	Asphalt	6	857.10	857.1	12.32	844.78	36	OUT	NEW SAN. MH NO. 113	12.22	844.88	36	IN	NEW SAN. MH NO. 115	6.7	850.4	8	IN	EX. MH NO. 550										
115	NEW SAN. MH	Internal lining	C1-08/C1-09	A	Asphalt	6	858.70	858.7	13.50	845.20	36	OUT	NEW SAN. MH NO. 114	13.4	845.30	36	IN	NEW SAN. MH NO. 116															
116A	NEW SAN. DROP MH		C1-09/C10-10	A	Asphalt/Grass	5	857.60	857.6	6.89	850.71	12	OUT	NEW SAN. MH NO. 116	4.89	852.71	8	IN	EX. MH NO. 530	4.89	852.71	8	OUT	EX. MH NO. 527										
116	NEW SAN. DROP MH		C1-09/C10-10	A	Asphalt	6	858.10	858.1	12.49	845.61	36	OUT	NEW SAN. MH 115	12.39	845.71	36	IN	NEW SAN. MH NO. 117	7.47	850.63	12	IN	NEW SAN. MH 116A										
117	NEW SAN. MH	Bolt Down Lid	C1-10	A	Grass	6	857.40	857.4	11.58	845.82	36	OUT	NEW SAN. MH 116	11.48	845.92	36	IN	NEW SAN. MH NO. 118															
118	NEW SAN. DROP MH	Bolt Down Lid	C1-10	A	Grass	6	857.20	857.2	11.14	846.06	36	OUT	NEW SAN. MH 117	11.04	846.16	36	IN	NEW SAN. MH NO. 119	4.7	852.5	15	IN	EX. MH NO. 524A	4.7	852.5	15	OUT	EX. MH NO. 524					
119	NEW SAN. MH	Bolt Down Lid	C1-10	A	Grass	6	857.36	857.36	11.10	846.26	36	OUT	NEW SAN. MH 118	11	846.36	36	IN	NEW SAN. MH NO. 120															
120	NEW SAN. DROP MH	Bolt Down Lid	C1-10/C1-11	A	Grass	6	858.40	858.4	11.97	846.43	36	OUT	NEW SAN. MH 119	11.87	846.53	36	IN	NEW SAN. MH NO. 121	3.4	855.0	8	IN	EX. MH NO. 522										
121	NEW SAN. MH	Bolt Down Lid	C1-11/C1-12	A	Grass	6	858.50	858.5	11.69	846.81	36	OUT	NEW SAN. MH 120	11.59	846.91	36	IN	NEW SAN. MH NO. 122															
122	NEW SAN. MH	Bolt Down Lid	C1-12	A	Grass	6	857.10	857.1	10.07	847.03	36	OUT	NEW SAN. MH 121	9.97	847.13	36	IN	NEW SAN. MH NO. 123															
123	NEW SAN. DROP MH	Bolt Down Lid	C1-12/C1-13	A	Grass	6	857.70	857.7	10.42	847.28	36	OUT	NEW SAN. MH 122	10.32	847.38	36	IN	NEW SAN. MH NO. 124	7.84	849.86	18	IN	EX. MH NO. 509	7.84	849.86	18	OUT	EX. MH NO. 506					
124	NEW SAN. MH	Bolt Down Lid	C1-13/C1-14	A	Grass	6	857.80	857.8	10.11	847.69	36	OUT	NEW SAN. MH 123	10.01	847.79	36	IN	NEW SAN. MH NO. 125															
125A	NEW SAN. DROP MH	Bolt Down Lid	C1-14/C1-15	A	Grass	5	858.20	858.2	7.41	850.79	15	OUT	NEW SAN. MH 125	3.41	854.79	12	IN	EX. MH NO. 515	3.41	854.79	12	OUT	EX. MH NO. 504										
125	NEW SAN. DROP MH	Bolt Down Lid	C1-14/C1-15	A	Grass	6	857.90	857.9	9.81	848.09	36	OUT	NEW SAN. MH 124	9.71	848.19	36	IN	NEW SAN. MH NO. 126	7.18	850.72	15	IN	NEW SAN. MH 125A										
126A	NEW SAN. DROP MH	Bolt Down Lid	C1-15/C1-16	A	Grass	8	858.20	858.2	8.76	849.44	27	OUT	NEW SAN. MH 126	4.76	853.44	24	IN	EX. MH NO. 514	4.76	853.44	24	OUT	EX. MH NO. 500										
126	NEW SAN. MH	Bolt Down Lid	C1-15/C1-16	A	Grass	6	858.00	858.0	9.51	848.49	36	OUT	NEW SAN. MH 125	9.41	848.59	36	IN	NEW SAN. MH NO. 127	8.6	849.4	27	IN	NEW SAN. MH 126A										
127A	NEW SAN. DOGHOUSE MH	Bolt Down Lid	C1-16	A	Grass	4	859.60	859.6	7.94	851.66	12	OUT	NEW SAN. MH 127	7.9	851.66	10	IN	EX. MH NO. 502															
127	NEW SAN. DROP MH	Bolt Down Lid	C1-16	A	Grass	6	859.20	859.2	10.33	848.87	36	OUT	NEW SAN. MH 126	6.3	852.90	18	IN	NEW SAN. MH NO. 128	7.56	851.64	12	IN	NEW SAN. MH 127A										
128	NEW SAN. DROP MH	Bolt Down Lid	C1-16	A	Grass	6	859.80	859.8	6.93	852.87	18	OUT	NEW SAN. MH 127	4.93	854.87	15	IN	EX. MH NO. 512	4.93	854.87	15	OUT	EX. MH NO. 511										
201	NEW SAN. DOGHOUSE MH	Bolt Down Lid	C2-01	B	Grass	4	11.69	855.9	11.69	844.21	15	OUT	EX. MH NO. 557	10.75	845.15	15	IN	NEW SAN. MH NO. 202	11.69	844.21	15	IN	EX. MH NO. 526										
202	NEW SAN. MH	Bolt Down Lid	C2-01	B	Grass	4	10.92	856.1	10.92	845.18	15	OUT	NEW SAN. MH 201	10.82	845.28	15	IN	NEW SAN. MH NO. 203															
203	NEW SAN. MH		C2-01/C2-02	B	Asphalt	4	13.18	858.67	13.18	845.49	15	OUT	NEW SAN. MH 202	13.08	845.59	15	IN	NEW SAN. MH NO. 204															
204	NEW SAN. MH	Internal lining	C2-01/C2-02	B	Asphalt	4	10.11	856.09	10.11	845.98	15	OUT	NEW SAN. MH 203	10.01	846.08	15	IN	NEW SAN. MH NO. 205															
205	NEW SAN. DROP MH	Internal lining	C2-02	B	Asphalt	5	9.62	855.94	9.62	846.32	15	OUT	NEW SAN. MH 204	12.8	846.42	10	IN	EX. MH South of Rush St.- Alleyway Intersection	5.8	850.18	8	IN	NEW SAN. MH 206	3.04	852.90	10	IN	EX. MH NO. 541					
206	New SAN. MH	Bolt Down Lid	C2-02	B	Grass	4	5.30	856.3	5.30	851.00	8	OUT	NEW SAN. MH 205																				

GENERAL NOTES:

1. EXISTING PIPE INVERT AND LOCATION ARE BASED ON BEST AVAILABLE DATA. INVERT AND LOCATION SHOWN MAY BE DIFFERENT THAN FOUND IN THE FIELD. SEE DS-# FOR VERIFICATION PROCEDURE.

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SOUTH BEND, IN.

ROBERT M. BELLOCI
REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP
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STRUCTURE DATA TABLE

Drawing No: **MD06**

Sheet: 43 OF 57

File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\TD S24169 WW COLLECTION - LTCP PH 3\06 CAD\A CURRENT FILES\1 DRAWINGS\06-MISC DETAILS\DRAWINGS.DWG
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Existing System Bypass Flows

Bypass Pumping Item No.	Sheet Number	Referenced Manhole #	Associated Sewer Main Pipe Diamter (in)	Estimated Peak Dry Weather Flow (GPM)**	Estimated Peak Wet Weather Flow (GPM)**	Manhole to Collect Flow From	Nearest Manhole To Receive Flow	Reason for bypassing
1	C1-01	101	15	312.50	2652.78	1002	1004	New pipe to MH 101 and diversion structure installation
2	C1-01	102	24	55.56	916.67	1000	1002	Manhole 102 installation, Temporary through pipe installation
3	C1-01	102	24	55.56	916.67	1000	1002	Temporary through pipe removal
4	C1-01	104	15	27.78	812.50		2042	Manhole 104 installation, Temporary through pipe installation
5	C1-01	104	15	27.78	812.50		2042	Temporary through pipe removal
6	C1-03	108	12	6.94	243.06	MH East of 6th St.-Cottonwood St. Intersection	4034	Manhole 108 installation, Temporary through pipe installation
7	C1-03	108	12	6.94	243.06	MH East of 6th St.-Cottonwood St. Intersection	4034	Temporary through pipe removal
8	C1-06	112	24	41.67	2500.00	3996	553	Mahole 112 installation (24" pipe from MH 3996)
9	C1-06	112A	8	13.89	208.33	4650	531	Manhole 112A installation (8" pipe coming from MH 4650)
10	C1-06	112A	24	41.67	2500.00	3996	553	Mahole installation (12" pipe coming from MH 3994)
11	C1-08	114	8	13.89	76.39	550	4650	Manhole 114 installation, Temporary through pipe installation
12	C1-08	114	8	13.89	76.39	550	4650	Temporary through pipe removal
13	C1-09	116A	8	6.94	20.83	530	527	Manhole 116A installation, Temporary through pipe installation
14	C1-09	116A	8	6.94	20.83	530	527	Temporary through pipe removal
15	C1-10	118	15	20.83	2611.11	524A	524	Manhole 118 installation, Temporary through pipe installation
16	C1-10	118	15	20.83	2611.11	524A	524	Temporary through pipe removal
17	C1-12	123	18	27.78	1493.05	509	505	Manhole 123 installation, Temporary through pipe installation
18	C1-12	123	18	27.78	1493.05	509	505	Temporary through pipe removal
19	C1-14	125A	12	6.94	1673.61	515	504	Manhole 125A installation, Temporary through pipe installation
20	C1-14	125A	12	6.94	1673.61	515	504	Temporary through pipe removal
21	C1-15	126A	24	34.72	4430.55	514	500	Manhole 126A installation, Temporary through pipe installation
22	C1-15	10+	24	34.72	4430.55	514	500	Temporary through pipe removal
23	C1-16	128	15	27.78	1111.11	512	502	Manhole 128 installation, Temporary through pipe installation
24	C1-16	128	15	27.78	1111.11	512	502	Temporary through pipe removal
25	**C2-02**	**205**	**12**	**145.83**	**1270.83**	**541**	**543**	**Manhole 205 and 8" trunk line installation**
26	**C2-02**	**205**	**10**	**1.39**	**13.89**	**EX. MH South of Rush St.-Alleyway Intersection**	**543**	**Manhole 205 and 8" trunk line installation**

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ROBERT M. BELLUCCI
REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

[illegible] 4/28/2025
Signature Date

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BY-PASS PUMPING TABLE

Drawing No:
MD07

File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\A CURRENT FILES\1 DRAWINGS\06-MISC DETAILS DRAWINGS.DWG
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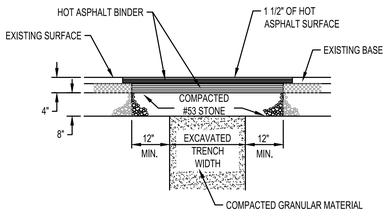
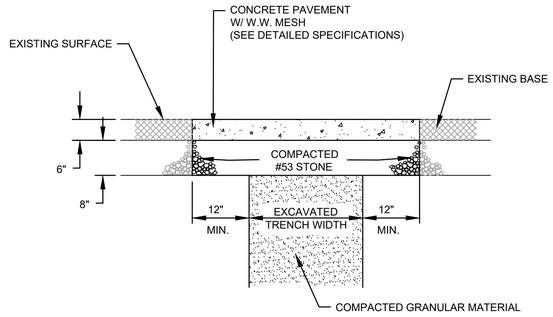


SURFACE RESTORATION DETAIL FOR ASPHALT PAVEMENT - ROAD

NOT TO SCALE



SURFACE RESTORATION DETAIL FOR CONCRETE PAVEMENT - DRIVE

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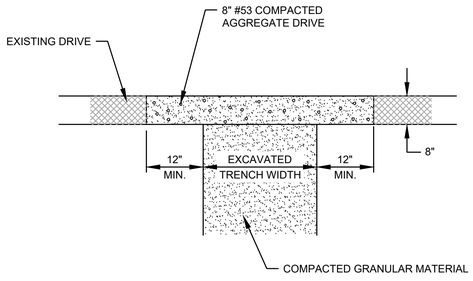

SURFACE RESTORATION DETAIL FOR GRAVEL PAVEMENT - DRIVE

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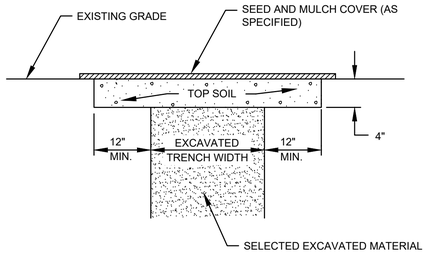
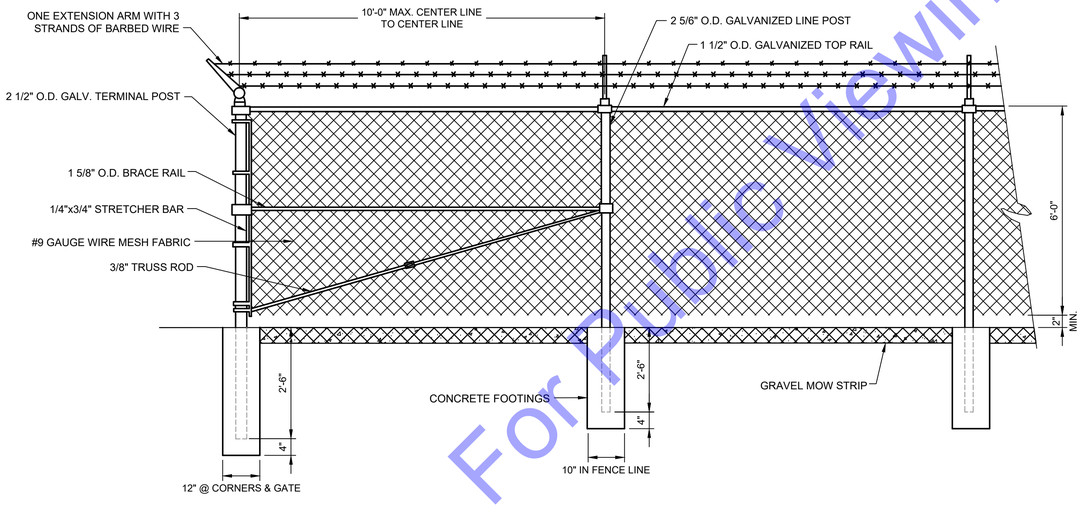


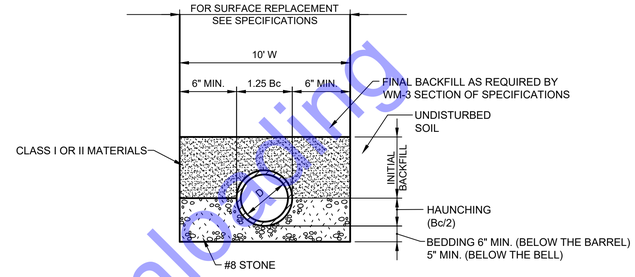
SURFACE RESTORATION DETAIL FOR GRASS AREAS

NOT TO SCALE



CHAIN LINK FENCE - DETAIL

NOT TO SCALE



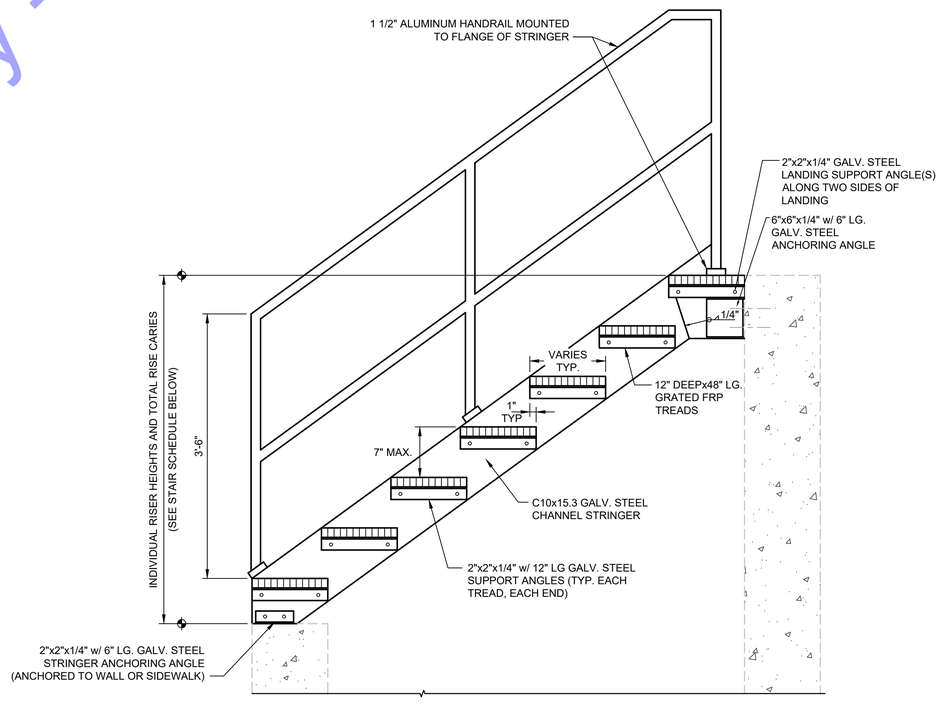
10' W= MAXIMUM ALLOWABLE TRENCH WIDTH FOR PIPE AS PER ASTM NOT TO EXCEED FOUR (4) FEET FOR 6" THROUGH 24" PIPE NOT SIX (6) FEET FOR 27" THROUGH 48" PIPE
D= PIPE DIAMETER (INTERNAL)
Bc= PIPE DIAMETER (EXTERNAL)

NOTES:

1. COMPACTED BEDDING STOPS AT SPRING-LINE OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS REQUIRED HEREIN.
2. WHEN CLASS I MATERIAL IS USED FOR BEDDING, COMPACTION MAY BE ACCOMPLISHED BY HAND OR MECHANICAL TAMPING.
3. WHEN CLASS II MATERIAL IS USED FOR BEDDING, COMPACTION SHALL BE ACCOMPLISHED ONLY BY HAND OR MECHANICAL TAMPING TO A MIN. OF 95% STANDARD PROCTOR DENSITY.
4. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT. FOR ALL OTHER NON-INDOT PAVEMENT AREAS (INCLUDING BOTH HARD SURFACED AND COMPACTED AGGREGATE), COMPACTED GRANULAR BACKFILL MATERIAL SHALL BE USED WITHIN 5 FEET OF THE EDGE OF THE PAVEMENT.
5. TRENCH WIDTHS BELOW THE BOTTOM OF TRENCH BOX OR SHORING USED FOR TRENCH SUPPORT. BOTTOM OF TRENCH BOX OR SHORING SHALL BE PLACED NO LOWER THAN THE TOP OF PIPE.
6. CLASS I OR II MATERIAL CHANGES TO NATIVE FILL DIRT OUT OF THE ROADWAYS.

TRENCH DETAIL FOR RIGID CONDUITS

NOT TO SCALE



GENERAL NOTE:

CONTRACTOR SHALL CONFIRM APPLICABLE LOCAL, STATE, OSHA CODES FOR INDIVIDUAL STAIR INSTALLATIONS AND SHALL CONFORM TO SAME.

SECTION-ALUMINUM STEPS
N.T.S.

ALUMINUM STEPS - DETAIL

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ROBERT M. BELLOC
REGISTERED No. 10000127 STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

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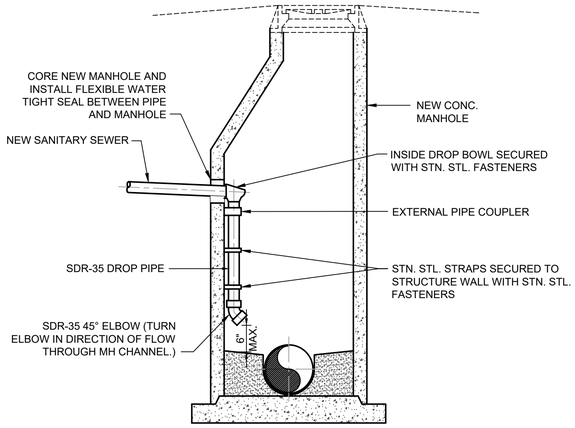
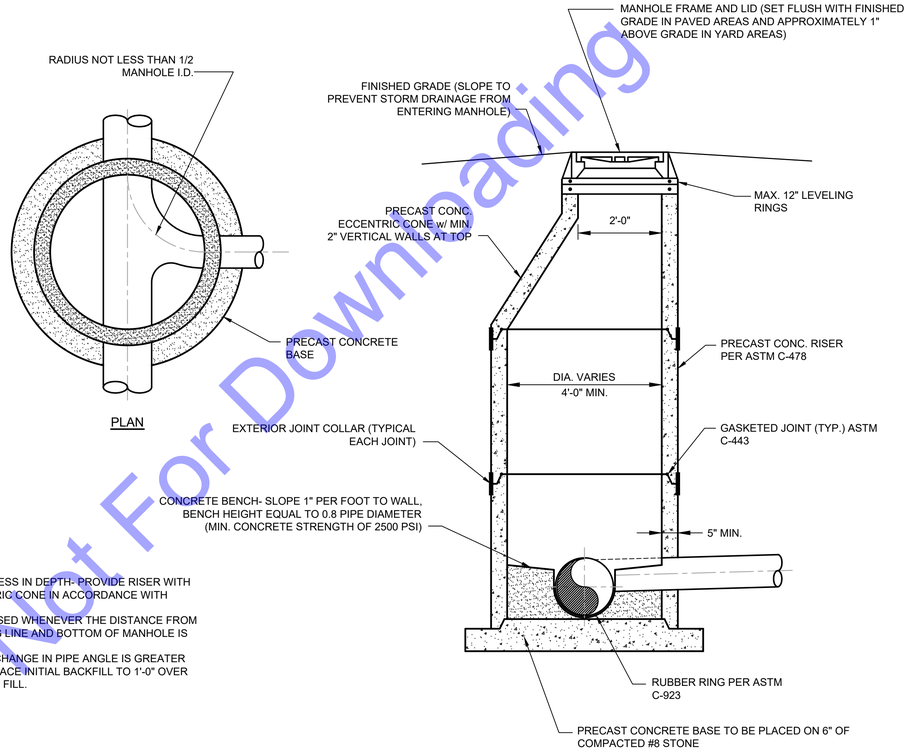
MISCELLANEOUS DETAILS

Drawing No:
MD08
Sheet: 45 OF 57



INSIDE DROP INTO NEW MANHOLE - DETAIL

NOT TO SCALE

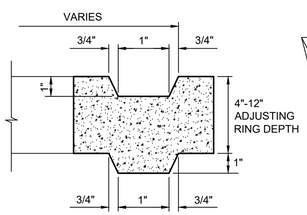


GENERAL NOTES:

1. FOR ALL MANHOLES 6'-0" OR LESS IN DEPTH- PROVIDE RISER WITH FLAT TOP IN LIEU OF ECCENTRIC CONE IN ACCORDANCE WITH ASTM C-478.
2. DROP MANHOLES SHALL BE USED WHENEVER THE DISTANCE FROM THE INVERT OF THE INCOMING LINE AND BOTTOM OF MANHOLE IS GREATER THAN TWO FEET.
3. FOR MANHOLES WHERE THE CHANGE IN PIPE ANGLE IS GREATER THAN, OR EQUAL TO 30°, REPLACE INITIAL BACKFILL TO 1'-0" OVER TOP OF PIPE WITH FLOWABLE FILL.

STANDARD SANITARY MANHOLE - DETAIL

NOT TO SCALE



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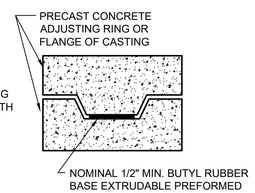

GASKET DETAIL
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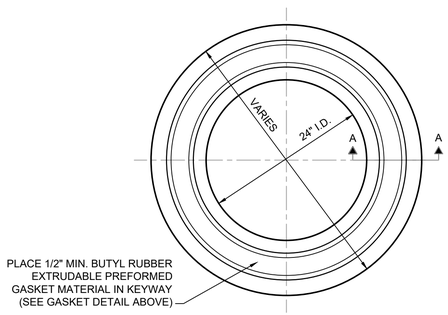

PLAN VIEW
SCALE: 1 1/2"= 1'-0"

ADJUSTING RING - DETAIL

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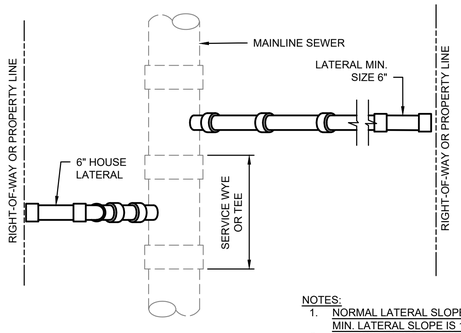
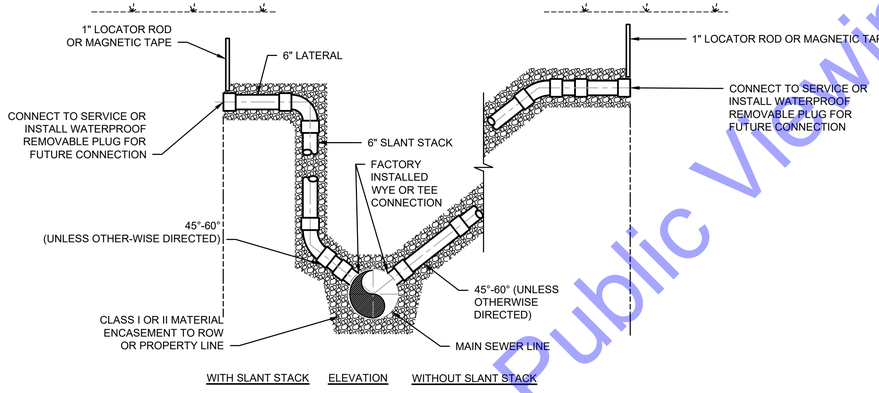


PLAN VIEW

NOTES:
1. NORMAL LATERAL SLOPE IS 1/4" PER FOOT MIN. LATERAL SLOPE IS 1/8" PER FOOT
2. MIN. COVER IS 5 FEET OVER PIPE

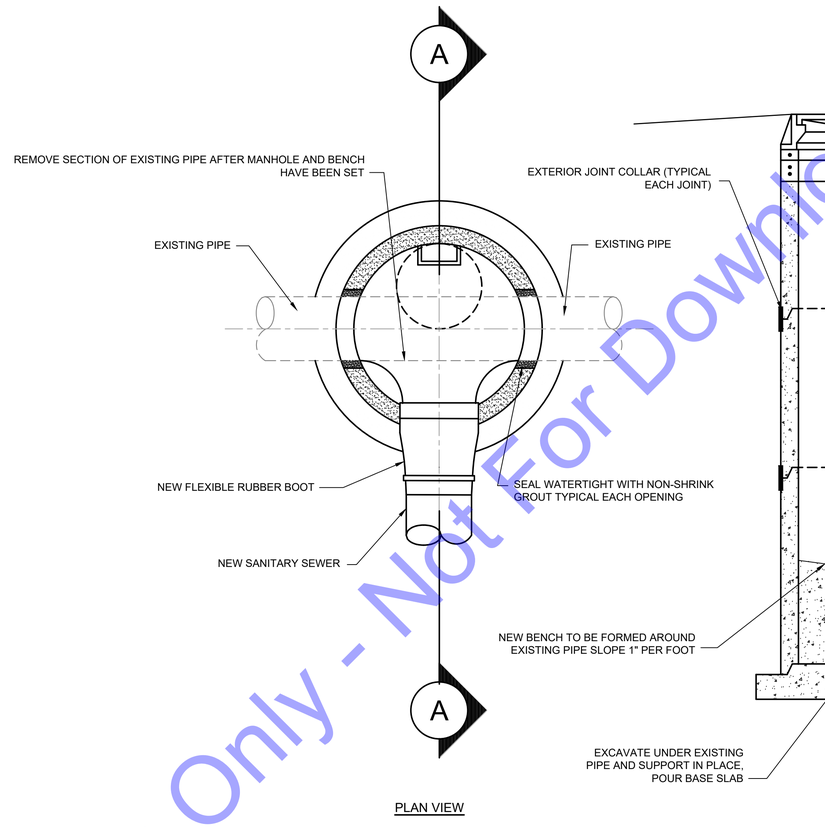


WITH SLANT STACK ELEVATION WITHOUT SLANT STACK

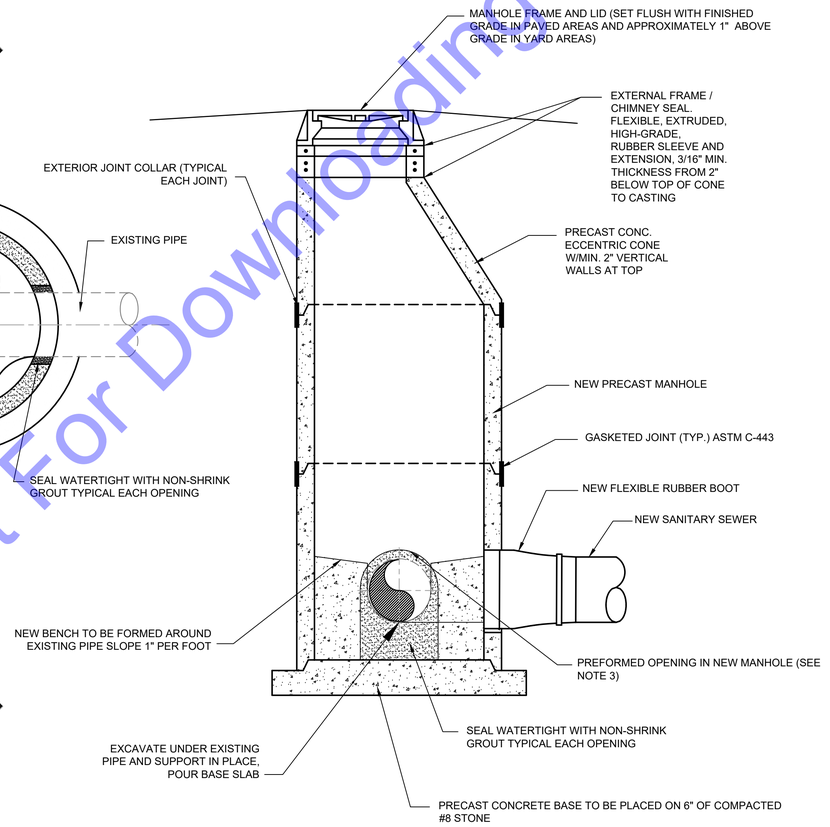
CONTRACTOR SHALL PROVIDE "AS-BUILT" SERVICE CONNECTION TIES TO THE OWNER, ENGINEER, AND PROPERTY OWNER

SERVICE CONNECTION

NOT TO SCALE



PLAN VIEW



SECTION A

GENERAL NOTES:

1. NEW "DOG-HOUSE" MANHOLE SHALL BE AS SPECIFIED FOR STANDARD MANHOLES IN WM-9 "STANDARD MANHOLES"
2. ALL REINFORCING SHALL MEET ASTM C-478
3. HOLES IN PRECAST UNITS SHALL BE 4" MIN. TO 8" MAX. LARGER THAN THE OUTSIDE DIAMETER OF THE PROPOSED PIPE.
4. MANHOLE CONFORMS TO ASTM C-478
5. NO BRICK OR BLOCK WILL BE ALLOWED IN MANHOLE
6. O-RING GASKETED JOINT BETWEEN ALL RISER AND CONE SECTIONS PER ASTM C-443 PLUS 1/2" EXTRUDABLE GASKET (KENT SEAL OR EQUAL)

NEW "DOG-HOUSE" MANHOLE OVER EXISTING SEWER - DETAIL

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ROBERT M. BELLUCCI REGISTERED No. 10000127 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

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IM	GCR	CL
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MISCELLANEOUS DETAILS

Drawing No:
MD10
Sheet: 47 OF 57

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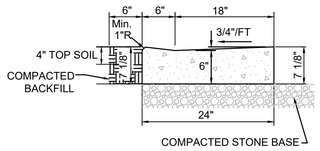
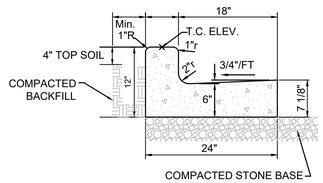


TYPICAL CONCRETE DEPRESSED CURB AND GUTTER DETAIL

NOT TO SCALE



TYPICAL CONCRETE CURB AND GUTTER DETAIL

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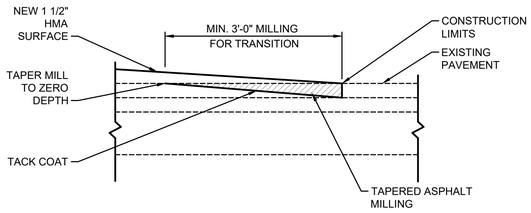
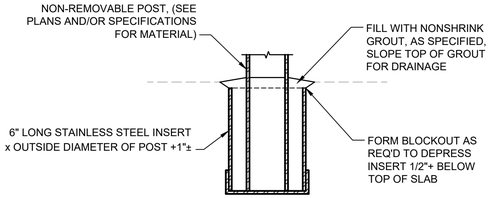
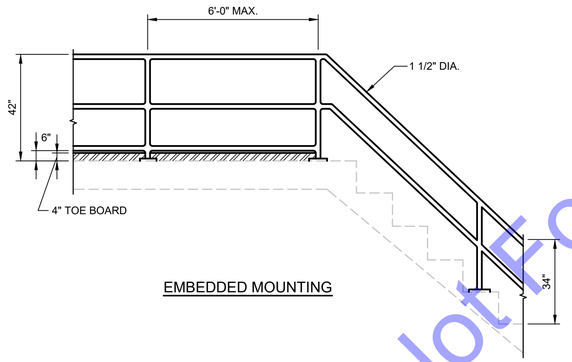


TRANSITION MILLING DETAIL

NOT TO SCALE



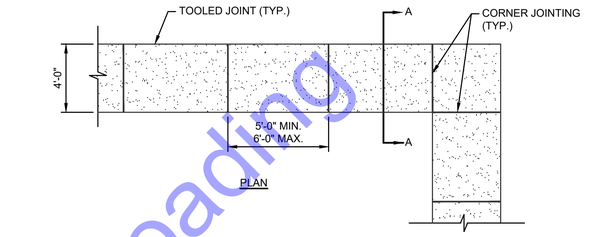
EMBEDDED MOUNTING

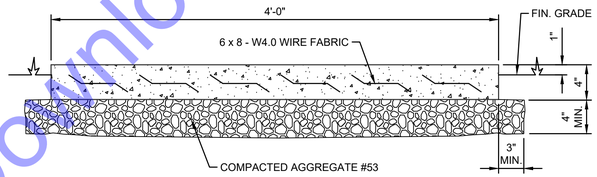


EMBEDDED MOUNTING

HANDRAIL DETAILS

NOT TO SCALE





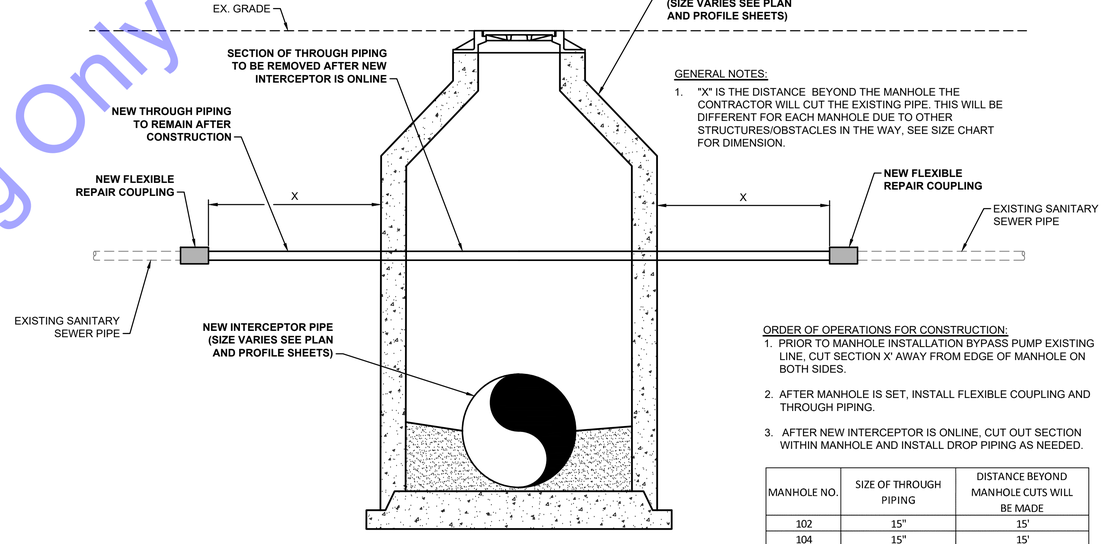
SECTION "A-A"

GENERAL NOTES:

1. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT SPACING AT A MINIMUM OF 6'-0"
2. SIDEWALK SHALL BE 6" THICK WITH 8" OF COMPACTED AGGREGATE No. 53 AT ALL DRIVEWAY CROSSINGS
3. SIDE SLOPE SHALL BE 1/4" / FT

CONCRETE SIDEWALK DETAIL

NOT TO SCALE



GENERAL NOTES:

1. "X" IS THE DISTANCE BEYOND THE MANHOLE THE CONTRACTOR WILL CUT THE EXISTING PIPE. THIS WILL BE DIFFERENT FOR EACH MANHOLE DUE TO OTHER STRUCTURES/OBSTACLES IN THE WAY, SEE SIZE CHART FOR DIMENSION.

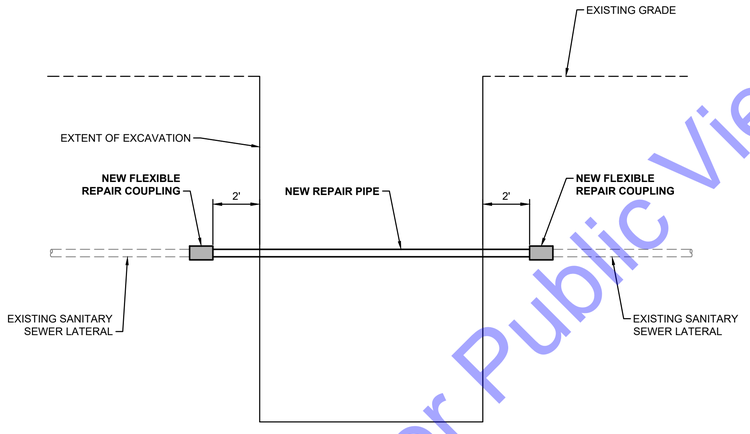
ORDER OF OPERATIONS FOR CONSTRUCTION:

1. PRIOR TO MANHOLE INSTALLATION BYPASS PUMP EXISTING LINE, CUT SECTION X' AWAY FROM EDGE OF MANHOLE ON BOTH SIDES.
2. AFTER MANHOLE IS SET, INSTALL FLEXIBLE COUPLING AND THROUGH PIPING.
3. AFTER NEW INTERCEPTOR IS ONLINE, CUT OUT SECTION WITHIN MANHOLE AND INSTALL DROP PIPING AS NEEDED.

MANHOLE NO.	SIZE OF THROUGH PIPING	DISTANCE BEYOND MANHOLE CUTS WILL BE MADE
102	15"	15'
104	15"	15'
108	12"	3'
114	8"	3'
116A	8"	10'
118	15"	5'
120	8"	15'
123	18"	3'
125A	12"	15'
126A	24"	15'
128	15"	15'

THROUGH PIPING FOR MANHOLE CONNECTING TO EXISTING PIPE - DETAIL

NOT TO SCALE



SEWER LATERAL REPAIR - DETAIL

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SOUTH BEND, IN.

ROBERT M. BELLOCQ
REGISTERED
No. 10000127
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/28/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

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Issue Date: 4/28/25	Project No: S24169	Scale: AS SHOWN

MISCELLANEOUS DETAILS

Drawing No: **MD11**

Sheet: 48 OF 57

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GENERAL

1. The structure has been designed for the in-service loads only. The methods, procedures, and sequences of construction are the responsibility of the Contractor. Supporting formwork for the concrete construction shall not be removed before the concrete has gained sufficient strength to safely support the dead and superimposed loads which will be subsequently applied. The Contractor shall take all necessary precautions to maintain and ensure the integrity of the structure at all stages of construction.
2. All work shall be performed in accordance with the Indiana Building Code, 2014 Edition (2012 International Building Code, first printing, with Indiana Amendments).
3. Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field, and report any errors or discrepancies to the Structural Engineer prior to the fabrication and erection of any new members.
4. Do not determine dimensions by "scaling" off the plans. The Contractor shall accept all risk associated with "scaling" and shall be responsible for all inadequate work resulting therefrom. Questions regarding missing or conflicting dimensions shall be directed, in writing, to the Structural Engineer.
5. Existing materials to be removed and reinstalled as part of this contract, but become damaged, shall be replaced with approved new material of equivalent quality and appearance at the Contractor's expense.
6. All work shall be performed without damage to adjacent retained work. Adequate protection of areas nearby work against dust, dirt and debris accumulation shall be maintained at all times.
7. Principal openings in the structure are indicated on the structural drawings. Refer to the architectural, mechanical, electrical, and plumbing drawings for sleeves, curbs, inserts, etc. not herein indicated. Openings in slabs with a maximum side dimension or diameter of 10 inches or less shall not require additional framing or reinforcement, unless noted otherwise. The location of sleeves or openings not shown in structural members shall be approved by the Structural Engineer.
8. The location of sleeves or openings not shown in structural members shall be approved by the Structural Engineer.
9. The Contractor shall relocate all mechanical piping, ducts, equipment, electrical conduits, wiring and plumbing that interfere with the proposed construction. Service shall be maintained to all equipment that is served by mechanical, electrical or plumbing conduit being relocated.
10. The Contractor shall relocate all utilities which interfere with the proposed construction. Service shall be maintained at all times during utility relocation unless otherwise noted.

FOUNDATIONS

1. Exterior footings shall bear 2'-6" minimum below finish grade and shall bear on undisturbed soil.
2. Foundation excavation and all other soils related work shall be performed in accordance with the geotechnical engineering report prepared by SME Project Number: 097784.00 dated March 27, 2025 and all associated supplements.
3. Foundation and soils related work shall be performed under the direct supervision of a qualified Geotechnical Engineer.
4. Foundation excavations shall be made to plan elevations. The soil conditions beneath foundations shall then be inspected by a qualified Geotechnical Engineer. If the underlying soils are found to be unacceptable, one of the following procedures shall be followed:
   A. Remove the unacceptable soil and backfill with an engineered structural fill in accordance with the geotechnical engineering report or inspecting Geotechnical Engineer.
   B. Lower the footing to an acceptable soil. Contact the Structural Engineer for potential modifications to the foundation system.
5. Subgrade structural elements subjected to differential lateral soil pressure shall be adequately braced until the structural elements which provide lateral restraint have been placed and allowed to cure for a minimum of 7 days.
6. Excavations for spread footings, combined footings, continuous footings and/or mat foundations shall be cleaned and hand tamped to a uniform surface. Foundation excavations shall be adequately protected against detrimental change in condition from disturbance, rain, freezing, etc. Surface runoff shall not be allowed to enter the excavation.
7. Foundation conditions noted during construction, which differ from those described in the geotechnical report shall be reported to the Structural Engineer and Geotechnical Engineer before further construction is attempted.

CONCRETE

1. Reinforced concrete has been designed in accordance with the latest editions of the Building Code Requirements for Reinforced Concrete (ACI 318) and Environmental Engineering Concrete Structures (ACI 350R) by the American Concrete Institute (ACI).
2. Slabs-on-grade shall be constructed in accordance with the latest edition of the Guide for Concrete Floor and Slab Construction (ACI 302.1R).
3. Mixing, transporting, and placing of concrete shall conform to the latest edition of the Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete (ACI 211.1) and the Standard Specifications for Structural Concrete (ACI 301). The special provisions of ACI 211.1 Appendix 5 (Mass Concrete Mix Proportioning) shall be used in proportioning the concrete mixture for the mat foundation to control temperature rise during hydration. In addition, the provisions of ACI 207.1R (Mass Concrete) shall apply. Concrete curing shall conform to the latest editions of the Standard Practice for Concrete Curing (ACI 308) and the Standard Specification for Curing Concrete (ACI 308.1). In case of a discrepancy, the plans and specifications shall govern.
4. Unless noted otherwise, concrete shall have natural sand fine aggregate and normal weight coarse aggregates conforming to ASTM C33, and Type I or III Portland Cement conforming to ASTM C150. Type III Portland Cement shall not be used in mass concrete. The Contractor shall submit a mix design for each proposed class of concrete. Mix designs shall indicate proportions by weight, water-cement ratio, slump, air content, synthetic fiber size and quantity, sieve analyses of fine and coarse aggregates, standard deviation analysis, and required average strength and documentation of average strength verifying compliance with ACI 318. The Contractor shall not vary from the mix design without approval from the Structural Engineer.
5. Unless noted otherwise, fly ash may be used as a pozzolan to replace a portion of the Portland Cement in a concrete mix. Fly ash, when used, shall conform to ASTM C618, Type C (except in mass concrete, ASTM C618, Type F shall be used). Concrete mixes using fly ash shall be proportioned to account for the properties of the specific fly ash used and to account for the specific properties of the fly ash concrete thus resulting. The ratio of the amount of the fly ash to the total amount of fly ash plus cement in the mix shall not exceed 25 percent.
6. Water-reducing admixtures conforming to ASTM C494 may be used in the concrete mix design. Maximum slump shall be 5 inches for mixes containing water-reducing admixtures and 5 to 8 inches for mixes containing high range water-reducing admixtures.
7. Concrete compressive strength tests shall be performed in accordance with ASTM C39. Copies of the test results shall be forwarded to the Structural Engineer. One set of specimens shall be taken for each day's pour of appreciable size and for each 50 cubic yards (100 cubic yards for mass concrete) in accordance with the latest edition of ASTM C31. Each set shall include one specimen tested at 7 days, 2 specimens tested at 28 days and one specimen retained in reserve.
8. When the ambient temperature is expected to fall below 40 degrees during the course of a concrete pour or subsequent curing period, it shall be placed and cured in accordance with the latest edition of Cold Weather Concreting (ACI 306R) and an additional set of concrete test cylinders shall be made.
9. Concrete mixed, transported, placed, and cured under conditions of high ambient temperature, low humidity, solar radiation, or high winds shall conform to the latest edition of Hot Weather Concreting (ACI 305R) and an additional set of concrete test cylinders shall be made.
10. Slump tests shall be made prior to and following the addition of plasticizers. Where concrete is placed by pumping methods, concrete for test cylinders and slump tests shall be taken at the point of final placement.
11. Water shall not be added to the concrete at the job site. The Contractor is responsible for coordinating a pumpable and workable mix without the addition of water at the job site. The use of plasticizers, retardants and other additives shall be at the option of the Contractor subject to the approval of the Structural Engineer. Follow the recommendations of the manufacturer for the proper use of additives. Use of calcium chloride or other chloride bearing salts is prohibited.
12. Place concrete in a manner so as to prevent segregation of the mix. Delay floating and trowelling operations until the concrete has lost surface water sheen or all free water. Do not sprinkle free cement on the slab surface. Finishing of slab surfaces shall conform to the latest editions of ACI 302.1R and ACI 304R (Guide for Measuring, Mixing, Transporting and Placing Concrete).
13. Where an epoxy adhesive is specified for bonding plastic concrete to hardened concrete, it shall conform to the latest edition of the Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive (ACI 503.2).
14. Maintain concrete in a moist condition for at least 5 days at ambient temperatures above 70 degrees, and at least 7 days at ambient temperatures above 50 degrees. Curing compounds or moisture retention covers shall be used for all non-formed surfaces. Formed surfaces shall be cured by leaving forms in place. During hot, dry weather, keep forms moist by sprinkling. When forms are removed prior to the end of the curing period, apply curing compound to the exposed surfaces.
15. Protect finished concrete surfaces from damage, rain, hail, running water, other injurious effects.
16. Protect the concrete surface between finishing operations on hot, dry days or any time plastic shrinkage cracks could develop by using wet burlap, plastic membranes or fogging.
17. Horizontal and vertical joints are not permitted in concrete construction except where indicated.
18. Construction joints and/or contraction joints at locations other than where indicated shall be submitted to the Structural Engineer for approval.
19. Provide 3/4 inch chamfers on all exposed corners of concrete.
20. The Contractor shall verify the location of sleeves, openings, embedded items, etc. and shall ensure that they are in place prior to the placement of the concrete.
21. Earth cuts shall not be used as forms ("bank forming") for vertical or sloping surfaces unless otherwise approved by the Structural Engineer. Where bank forming is permitted, the concrete element shall be increased at least 3 inches on all sides exposed to earth to account for possible soil contamination during concrete placement.

CONCRETE SCHEDULE

CONCRETE SCHEDULE						
CLASS	f'_c	AIR CONTENT	MIN. CEMENT: LB/CY (SACKS/CY)	MAX. WATER/ CEMENT: RATIO	CONCRETE PLACEMENT	REMARKS
A	4,500 psi	6% ± 1.5%	611 (6.5)	0.45	diversion structure	crystalline waterproofing admixture
B	4,500 psi	6% ± 1.5%	611 (6.5)	0.40	exterior slabs-on-grade, stoops, curbs, & sidewalks exposed to de-icers	synthetic fibers (1.5 lbs/cys)

REINFORCING STEEL

1. Reinforcing bar detailing, fabricating, and placing shall conform to the latest edition of the following standards: Specifications for Structural Concrete for Buildings (ACI 301), ACI Detailing Manual (SP66). The latest editions of Concrete Reinforcing Steel Institute's Reinforcing Bar Detailing and Placing Reinforcing Bars may also be used.
2. Provide standard bar chairs, slab bolsters, spacers, etc. as required to maintain concrete protection specified. Reinforcing steel shall be tied to prevent displacement during concrete placement.
3. Reinforcement bars shall not be tack welded, welded, heated or cut unless otherwise indicated or approved by the Structural Engineer.
4. Welding of reinforcement bars, when approved by the Structural Engineer, shall conform to the latest edition of American Welding Society Standard D1.4. Electrodes for shop and field welding of reinforcement bars shall conform to ASTM A233, Class E90XX.
5. Synthetic fibers shall be used for temperature and shrinkage reinforcement in concrete slabs-on-grade. Synthetic fibers shall be virgin (non-recycled) nylon or polypropylene fibers conforming to ASTM C1116, Type III. Fibers shall be introduced into the mix at the plant in accordance with the manufacturer's recommendations. The Contractor shall submit the mix design, including the fiber size and quantity, to the Structural Engineer for approval prior to construction. The Contractor shall take adequate measures to manage any difficulty in concrete finishing associated with the use of the fibers.
6. Concrete cover over reinforcement, unless otherwise noted, shall be as specified in the latest editions of ACI 318 and ACI 350 with the most stringent requirements governing.
7. Unless noted otherwise, splicing of reinforcing bars shall conform to the latest edition of ACI 318.

CONCRETE REINFORCING STEEL LAP SPLICE SCHEDULE			
BAR SIZE	TENSION SPLICE		COMPRESSION SPLICE
	TOP BAR	OTHER	
#3	21"	16"	12"
#4	28"	24"	15"
#5	35"	30"	19"
#6	42"	36"	23"
#7	49"	42"	26"
#8	56"	48"	30"
#9	63"	57"	34"
#10	76"	66"	38"
#11	93"	72"	42"

8. Horizontal bars in walls, masonry bond beams, and continuous wall footings shall be bent at corners and intersections in such a way that continuity is provided through the joint. Separate corner bars of the same size and spacing as the horizontal reinforcing may be substituted for the bent portion of the continuous bars.
9. Unless noted otherwise, provide 2-#5 bars (one each face) around unframed openings and diagonally at reentrant corners of vertical height offsets in concrete walls. Place bars parallel to the sides of the opening and extend 24 inches beyond corners.
10. The Contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect and construct all parts of the work in accordance with the drawings and specifications and shall submit one reproducible copy and one blue line copy to the Structural Engineer for review prior to fabrication. These shop drawings will be reviewed for design concepts only. The Contractor shall be responsible for all dimensions, accuracy, and fit of work.

STRUCTURAL STEEL

1. Structural steel detailing, fabrication and erection shall conform to the latest editions of the AISC Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design, and the AISC Code of Standard Practice for Steel Buildings and Bridges.
2. Erector shall maintain minimum temporary bracing at each bay in each direction until the roof diaphragm and permanent lateral load resisting system construction are complete.
3. Structural steel shall be shop-painted with a rust inhibiting primer. All abrasions caused by handling after shop painting shall be touched-up after erection is complete.
4. Steel which will be exposed to weather shall be hot-dip galvanized (G90 finish). When welding after galvanizing is required, the welding procedures shall conform to the latest edition of the American Welding Society's (AWS) Structural Welding specification D-19.0, Welding Zinc Coated Steel. All abrasions cause by welding or handling on the galvanized steel shall be touched-up after erection is complete. The Contractor shall submit the galvanizing touch-up coating product data sheet for review by the Structural Engineer of Record.
5. Unless otherwise noted, bolted connections for structural steel members shall be bearing-type using 3/4" diameter ASTM A325 high strength bolts with standard 13/16" diameter holes tightened to the snug tight condition.
6. Welding procedures shall conform to the latest edition of the American Welding Society's (AWS) Structural Welding Codes for: Steel ANSI/AWS D1.1 and Sheet Steel ANSI/AWS D1.3, and Reinforcing Steel ANSI/AWS D1.4.
7. Field drilled holes shall be reamed, cleaned and deburred prior to assembly of the connection.
8. Thermal cutting shall preferably be done by machine. Hand thermally cut edges which will be subjected to substantial stress, or which are to have weld metal deposited on them, shall be reasonably free from notches or gouges. Notches or gouges greater than 3/16" that remain from cutting shall be removed by grinding. Re-entrant corners shall be shaped notch-free to a radius of at least 1/2".
9. Paint on surfaces adjacent to joints to be field welded shall be wire brushed to reduce the paint film to a minimum.
10. Surfaces within 2" of any field weld shall be free of materials that would prevent proper welding or produce toxic fumes while welding is being done.
11. The Contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect and construct all parts of the work in accordance with the drawings and specifications and shall submit one reproducible copy and one blue line copy to the Structural Engineer for review prior to fabrication. These shop drawings will be reviewed for design concepts only. The Contractor shall be responsible for all dimensions, accuracy, and fit of work.

NON-SHRINK GROUT

1. Grout shall be a high early strength, non-metallic, shrinkage resistant (when tested in accordance with the latest edition of ASTM C827 or CRD-C621), premixed, non-corrosive, non-staining product conforming to the requirements of the latest edition of ASTM C1107 and containing Portland Cement, silica sands, shrinkage compensating agents and fluidity improving compounds.
2. Grout compressive strength tests shall be performed in accordance with the latest edition of ASTM C109, with a restraining plate placed over the molds.
3. Grout shall be installed in accordance with the manufacturer's instructions.
4. Grout shall be placed in a non-sag flowable state and shall have forms built around it for confinement. Grout shall be cured according to manufacturer's recommendations.

COORDINATION WITH OTHER TRADES

1. The Contractor shall coordinate and check all dimensions relating to architectural finishes, structural framing, mechanical openings, equipment, etc. The Structural Engineer shall be notified of any discrepancies before proceeding with work in an area under question.

DESIGN

1. Building Code: Indiana Building Code, 2014 Edition (2012 International Building Code, first printing, with Indiana Amendments).
2. Soil information:
   - Allowable net bearing pressure:
     - Spread Footings — 2000 psf (assumed)
     - Continuous Wall Footings — 2000 psf (assumed)
   - Unit weight of soil — 125 pcf (assumed)
   - Equivalent fluid pressure on tank walls — 90 psf / ft (assumed)
   - Coefficient of friction between soil and concrete footing — 0.30 (assumed)
3. Concrete:
   - 28 day compressive strength (f'c) — See Schedule
4. Reinforcing steel (deformed bars of new billet steel):
   - Stirrup and tie — ASTM A615, Grade 60
   - Weldable (Low-Alloy) — ASTM A706, Grade 60
   - Otherwise — ASTM A615, Grade 60
   - Welded wire fabric (smooth) — ASTM A185
5. Structural Steel:
   - Structural steel rolled S, M, and HP shapes & channels — ASTM A36
   - Structural steel rolled plates & angles — ASTM A36
   - All other members — ASTM A36
   - Connection bolts — ASTM A325N
6. Non-shrink grout:
   - 28 day compressive strength — 5,000 psi
7. Risk Category — III
8. Live loads:
   - Floor: — 100 psf
9. Wind loads:
   - Basic wind speed (3-second gust) — 120 mph
   - Importance factor, Iw — 1.10
   - Exposure — C
10. Seismic loads:
    - Seismic importance factor, Ie — 1.25
    - Mapped Spectral Response Acceleration at Short Periods, Ss — 15.0% g
    - Mapped Spectral Response Acceleration at 1 Second, S1 — 7.1% g
    - Site Class — D (assumed)
    - Design Spectral Response Acceleration at Short Periods, Sds — 13.4.0% g
    - Design Spectral Response Acceleration at 1 Second, Sd1 — 11.3% g
    - Seismic Design Category — B

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JOHN DAVID TAYLOR
REGISTERED
No. PE19900097
STATE OF INDIANA
PROFESSIONAL ENGINEER

[illegible] 04/17/25

Signature Date

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TOWN OF FAIRMONT
GRANT COUNTY, INDIANA

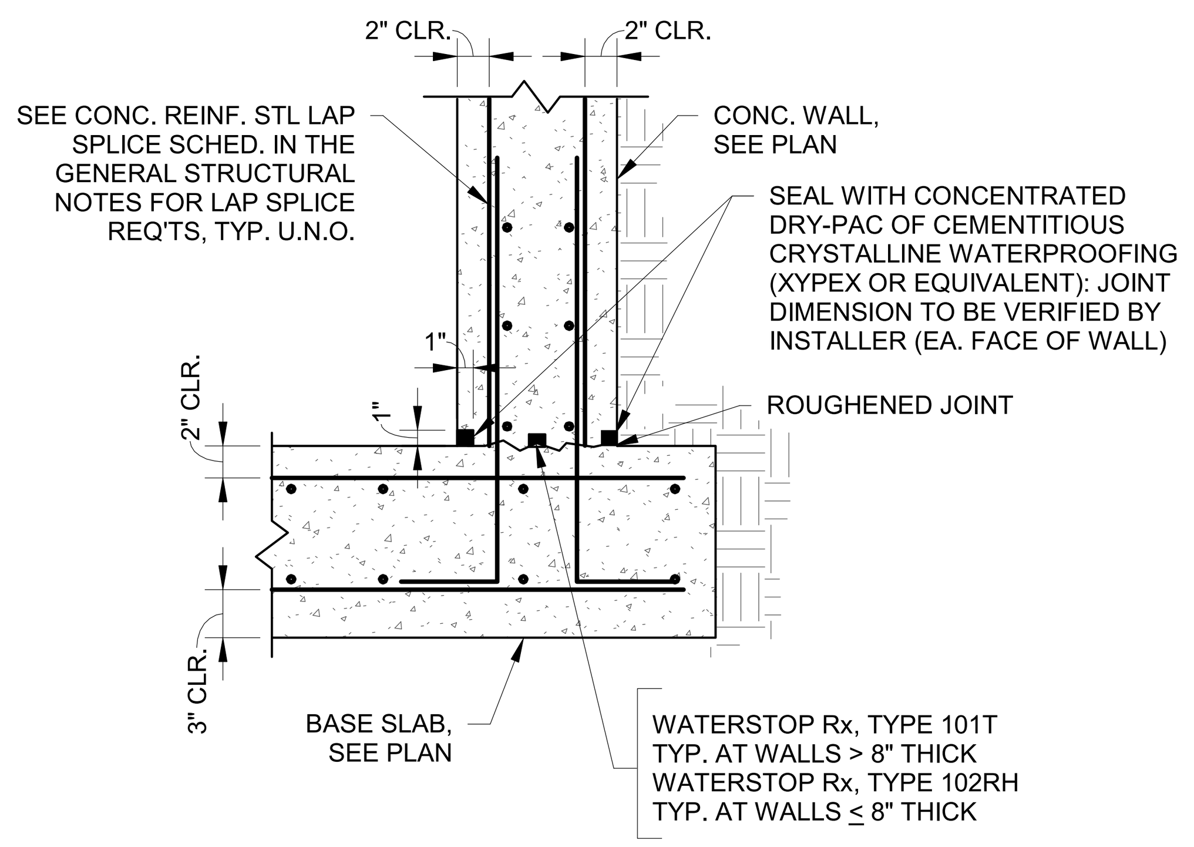
WASTEWATER UTILITY LTCP
PHASE III - COLLECTION
SYSTEM IMPROVEMENTS

No.	Submittal / Revision	By	Date

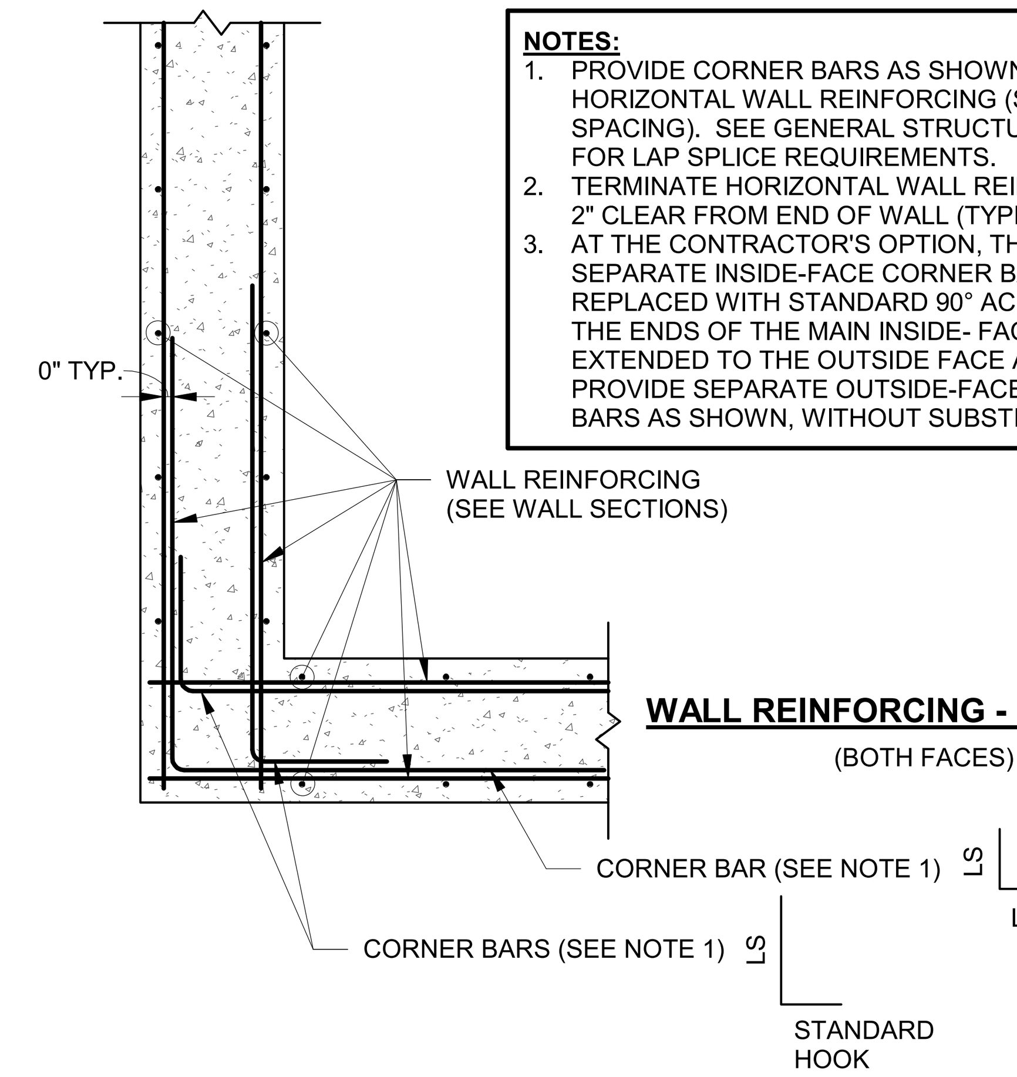
Designed By:	Drawn By:	Checked By:
JAB	RMS	JDT
Issue Date:	Project No:	Scale:
04/17/2025	25-134	NO SCALE

GENERAL STRUCTURAL NOTES

Drawing No:
S1-1

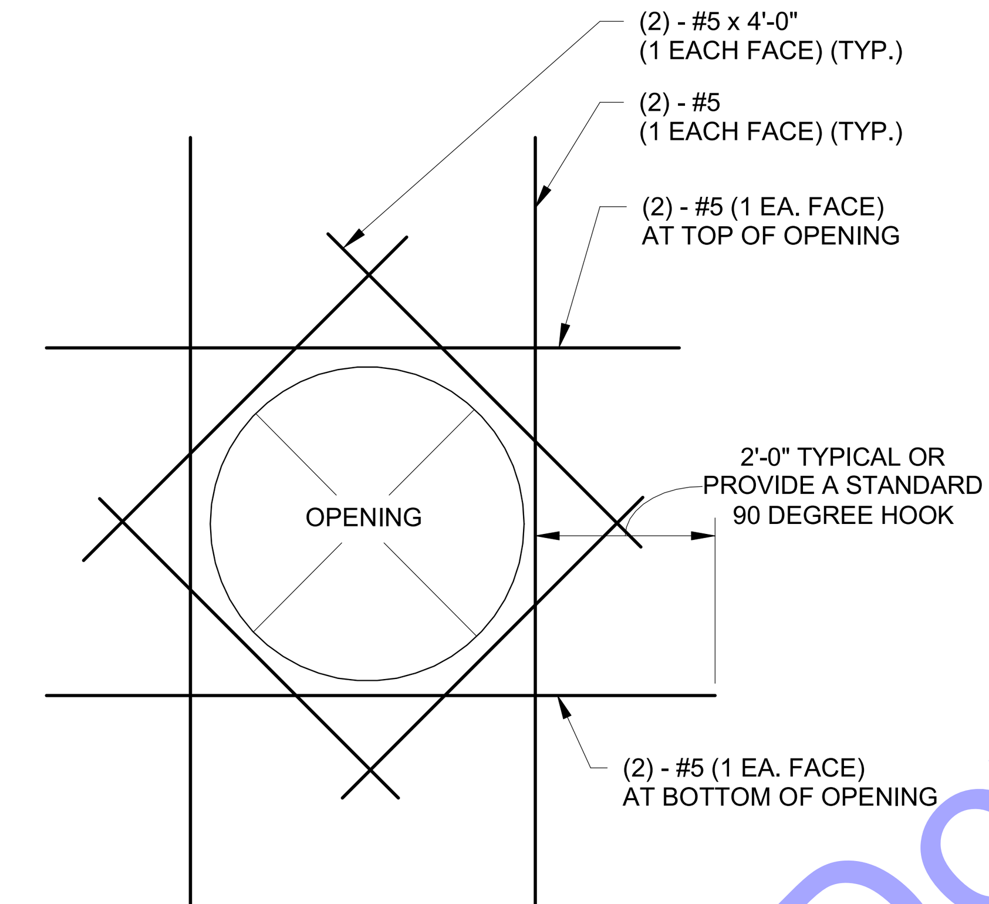


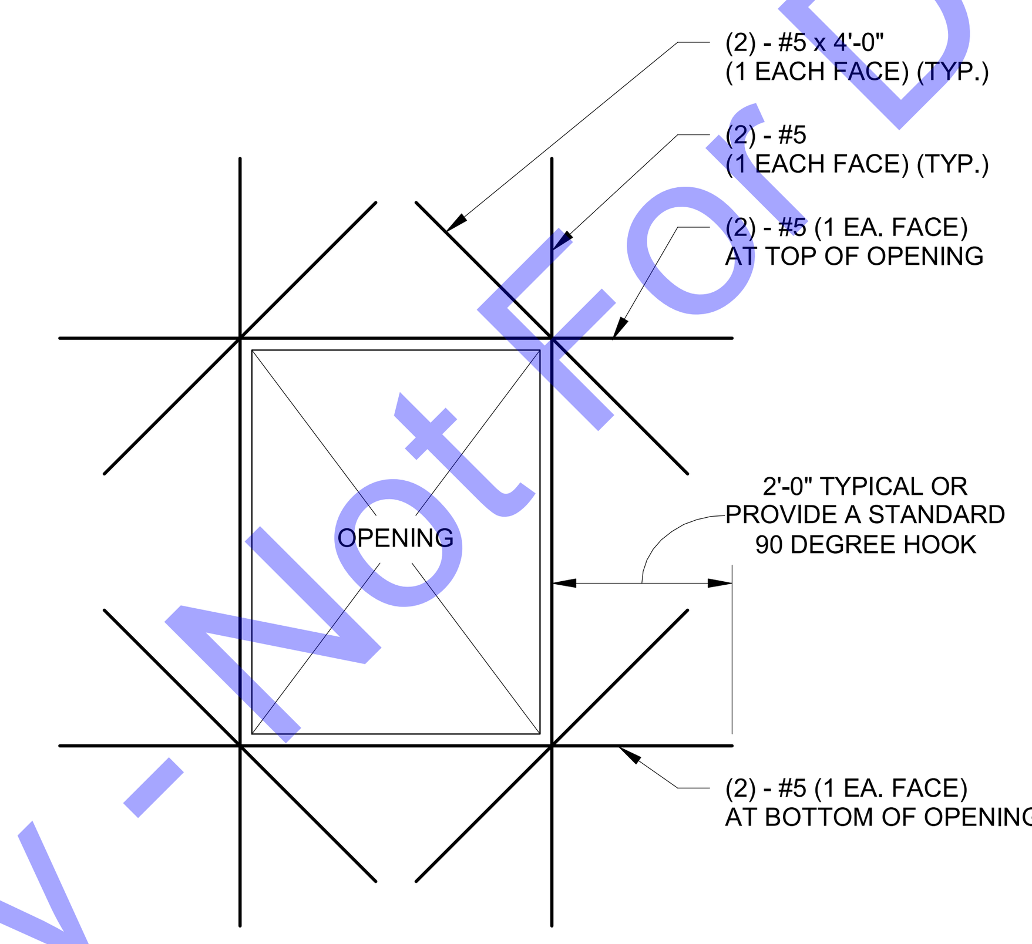
8 S1-2 TYP. WALL TO BASE SLAB
1" = 1'-0"



NOTES:
1. PROVIDE CORNER BARS AS SHOWN, MATCH HORIZONTAL WALL REINFORCING (SIZE AND SPACING). SEE GENERAL STRUCTURAL NOTES FOR LAP SPLICE REQUIREMENTS.
2. TERMINATE HORIZONTAL WALL REINFORCING 2" CLEAR FROM END OF WALL (TYPICAL U.N.O.).
3. AT THE CONTRACTOR'S OPTION, THE SEPARATE INSIDE-FACE CORNER BARS MAY BE REPLACED WITH STANDARD 90° ACI HOOKS AT THE ENDS OF THE MAIN INSIDE- FACE BARS, EXTENDED TO THE OUTSIDE FACE AS SHOWN. PROVIDE SEPARATE OUTSIDE-FACE CORNER BARS AS SHOWN, WITHOUT SUBSTITUTION.

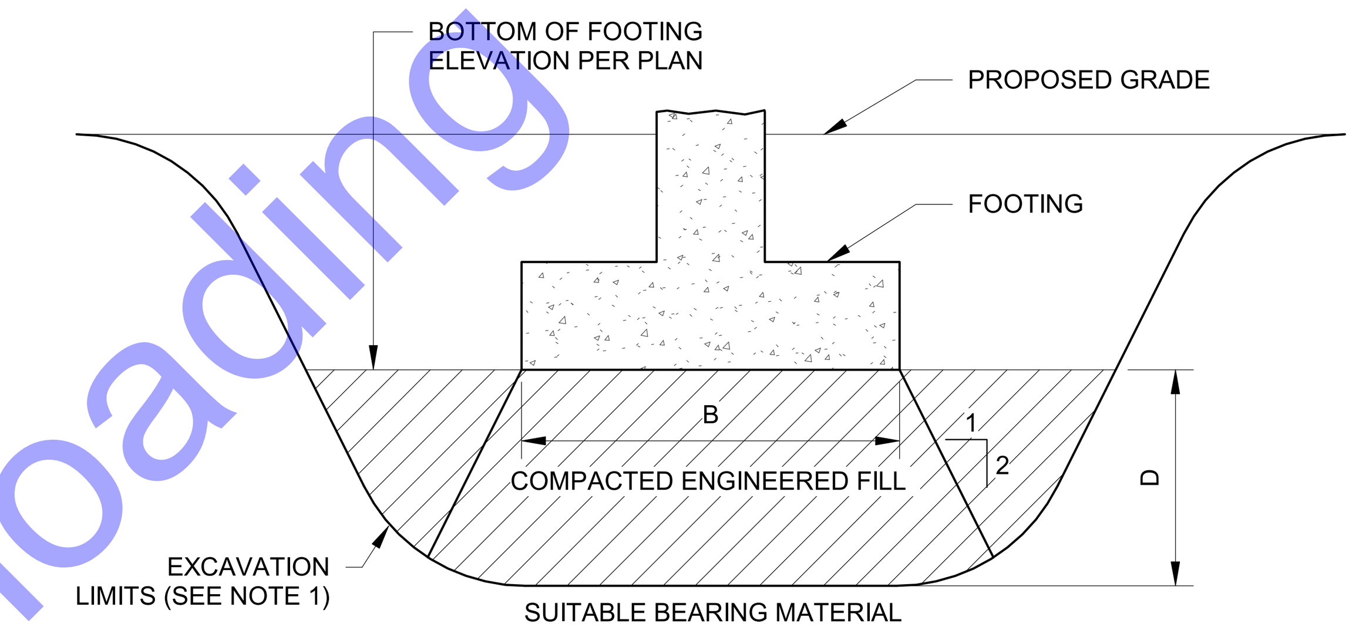
5 S1-2 TYPICAL CONCRETE WALL CORNER REINFORCEMENT - PLAN VIEW
3/4" = 1'-0"





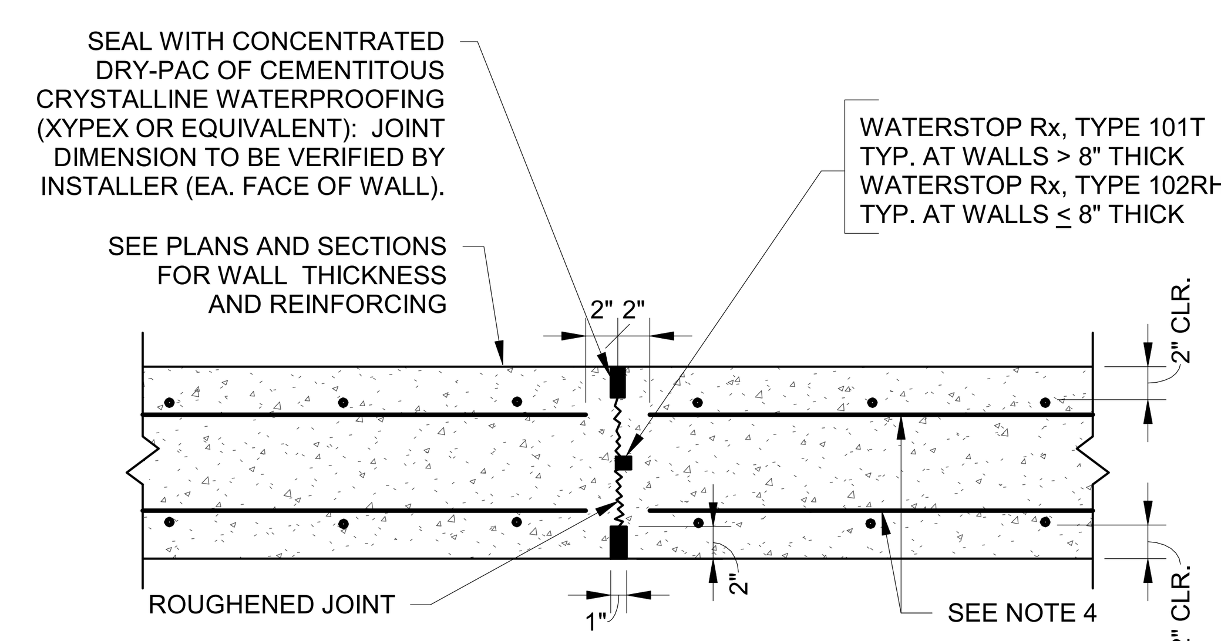
NOTES:
1. WHERE HORIZONTAL REINFORCING IS INTERRUPTED BY THE OPENING, ONE HALF OF THE INTERRUPTED STEEL SHALL BE ADDED TO EACH SIDE OF THE OPENING. USE FULL LENGTH BARS.
2. THIS DETAIL APPLIES TO ALL OPENINGS IN CONCRETE WALLS UNLESS DETAILED OTHERWISE ON THE PLANS.

3 S1-2 TYP. OPENING IN CONCRETE WALL
1/8" = 1'-0"



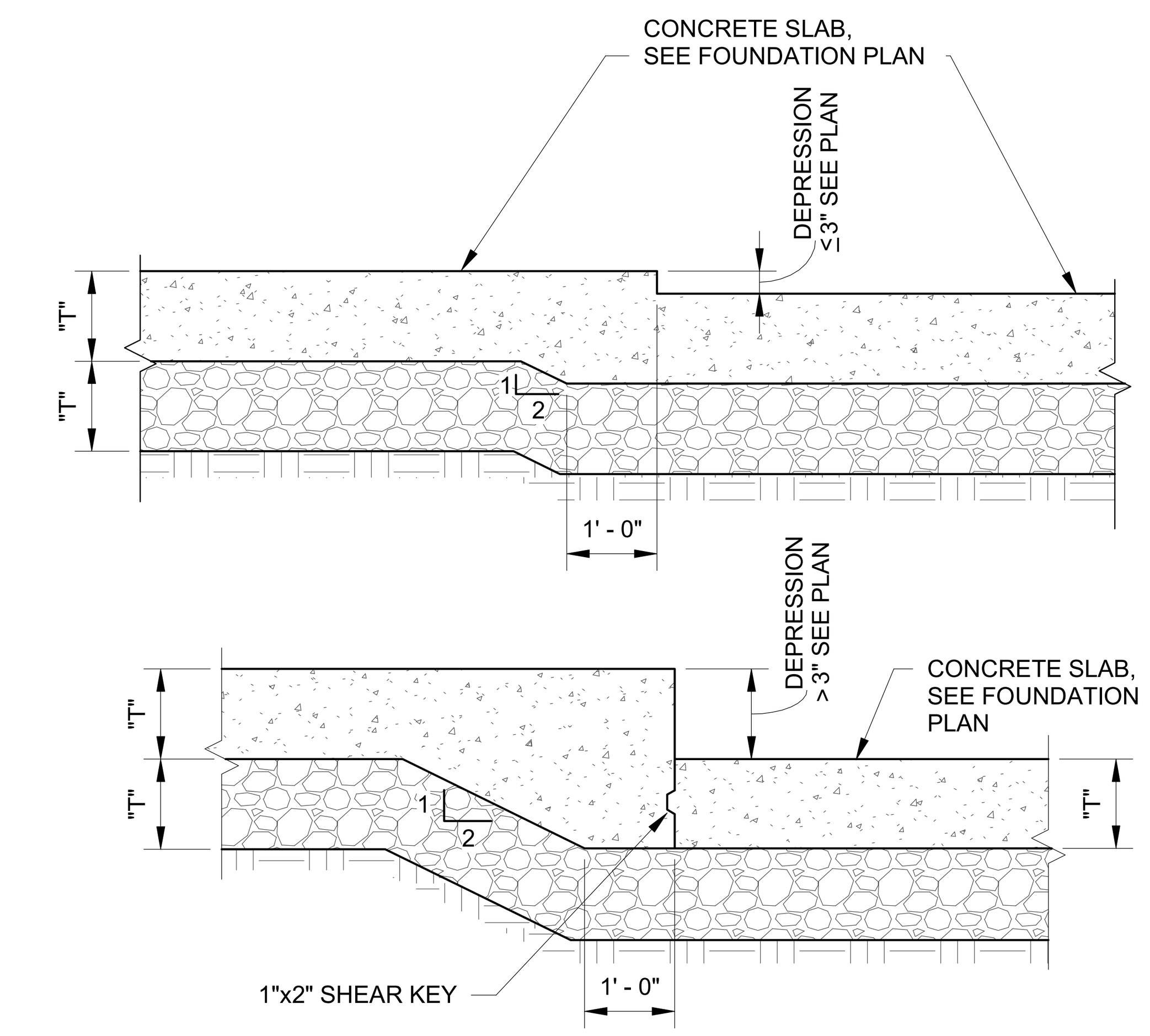
NOTES:
1. DEWATER EXCAVATION AS REQUIRED.
2. WIDTH OF EXCAVATION SHALL EQUAL WIDTH OF FOOTING PLUS DEPTH OF UNDERCUT (W=B+D).

1 S1-2 TYP. FOOTING IN UNDERCUT AREA
1" = 1'-0"

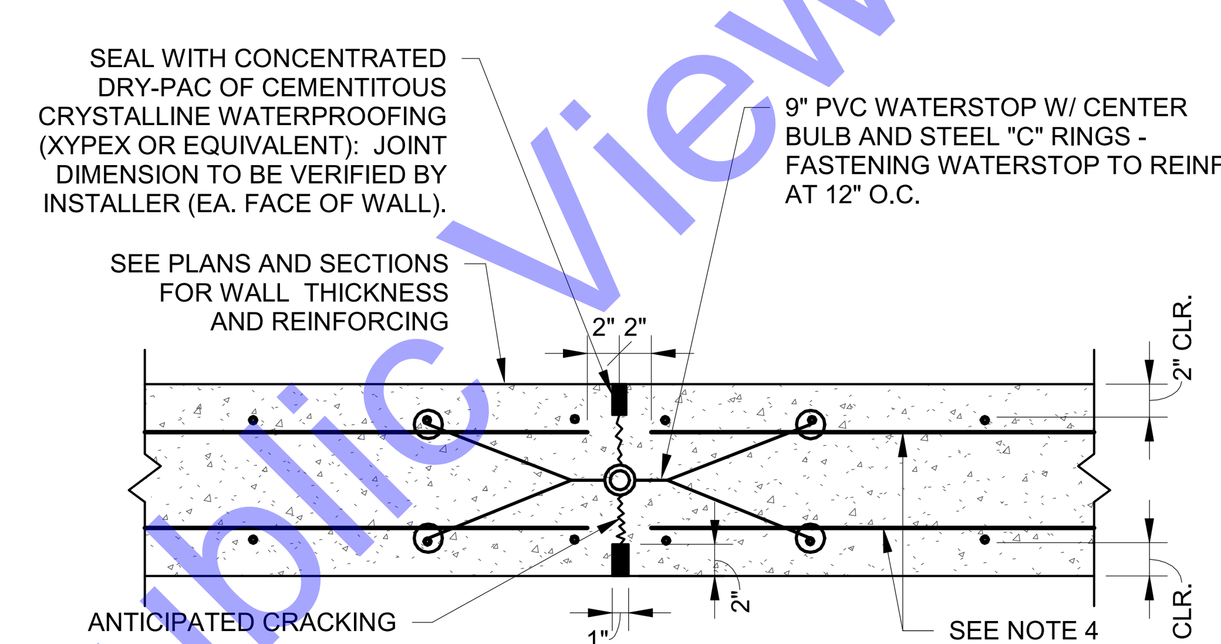


NOTES:
1. CONSTRUCTION JOINTS SHALL BE LOCATED AT JOINTS MARKED CJ.
2. WATERSTOPS AND DRY-PAC REQUIRED AT WATER RETAINING WALLS ONLY.
3. UNLESS NOTED OTHERWISE, CONSTRUCTION JOINT SPACING NOT TO EXCEED 75 FEET.
4. 50% OF THE HORIZ. REINF. STEEL SHALL BE CONTINUOUS THRU JOINT. HORIZONTAL BARS THAT STOP SHORT OF JOINT SHALL BE FABRICATED ACCORDINGLY AND SHALL NOT BE FIELD CUT. CONTINUOUS AND DISCONTINUOUS HORIZ. BARS SHALL BE ALTERNATED ALONG WALL HEIGHT.
5. SEE SPECIFIC DETAILS AT NOTED STRUCTURES WHERE 100% OF THE HORIZONTAL REINFORCING STEEL IS CONTINUOUS THRU JOINT.
6. CONSTRUCTION JOINTS SHALL NOT OCCUR WITHIN 5'-0" OF A CORNER.
7. SEE GENERAL STRUCTURAL NOTES FOR LAP SPLICE REQUIREMENTS.

6 S1-2 TYP. WALL CONSTRUCTION JOINT
1" = 1'-0"

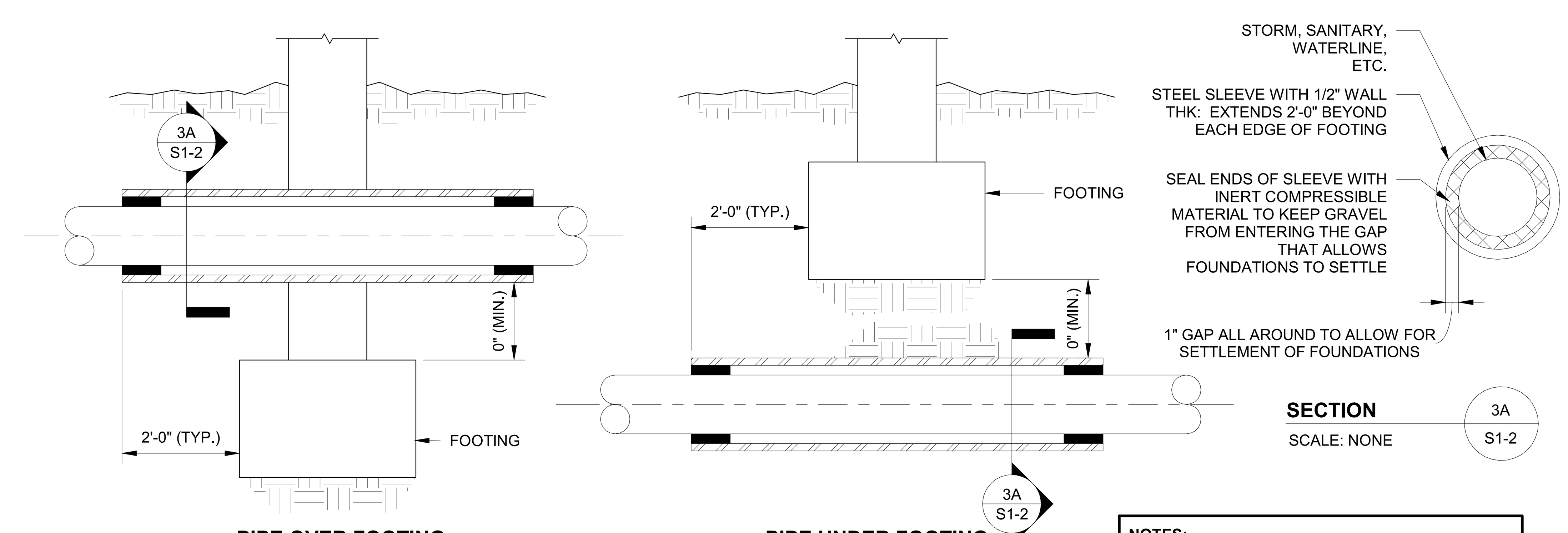


2 S1-2 SLAB DEPRESSION DETAIL
1/2" = 1'-0"



NOTES:
1. CONTRACTION JOINTS SHALL BE LOCATED AT JOINTS MARKED CT.
2. WATERSTOPS AND DRY-PAC REQUIRED AT WATER RETAINING WALLS ONLY.
3. UNLESS NOTED OTHERWISE, CONTRACTION JOINT SPACING NOT TO EXCEED 25 FEET.
4. 50% OF THE HORIZ. REINF. STEEL SHALL BE CONTINUOUS THRU JOINT. HORIZONTAL BARS THAT STOP SHORT OF JOINT SHALL BE FABRICATED ACCORDINGLY AND SHALL NOT BE FIELD CUT. CONTINUOUS AND DISCONTINUOUS HORIZ. BARS SHALL BE ALTERNATED ALONG WALL HEIGHT.
5. SEE SPECIFIC DETAILS AT NOTED STRUCTURES WHERE 100% OF THE HORIZONTAL REINFORCING STEEL IS CONTINUOUS THRU JOINT.
6. CONTRACTION JOINTS SHALL NOT OCCUR WITHIN 5'-0" OF A CORNER.
7. SEE GENERAL STRUCTURAL NOTES FOR LAP SPLICE REQUIREMENTS.

7 S1-2 TYP. WALL CONTRACTION JOINT
1" = 1'-0"



NOTES:
1. COORDINATE THE USE OF THESE DETAILS WITH THE UNDERSLAB PIPING CONTRACTOR.
2. IF THE TOP OF THE SERVICE PIPE IS 2'-0" (OR GREATER) BELOW THE BOTTOM OF THE FOOTING, STEEL SLEEVE IS NOT REQUIRED.

4 S1-2 TYP. UNDERGROUND SERVICE PIPE DETAIL AT WALL FOUNDATION
1/8" = 1'-0"

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JOHN DAVID TAYLOR REGISTERED No. PE19900097 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature [illegible] Date 04/17/25

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TYPICAL STRUCTURAL DETAILS - CONCRETE

Drawing No:
S1-2

Sheet: 50 OF 57

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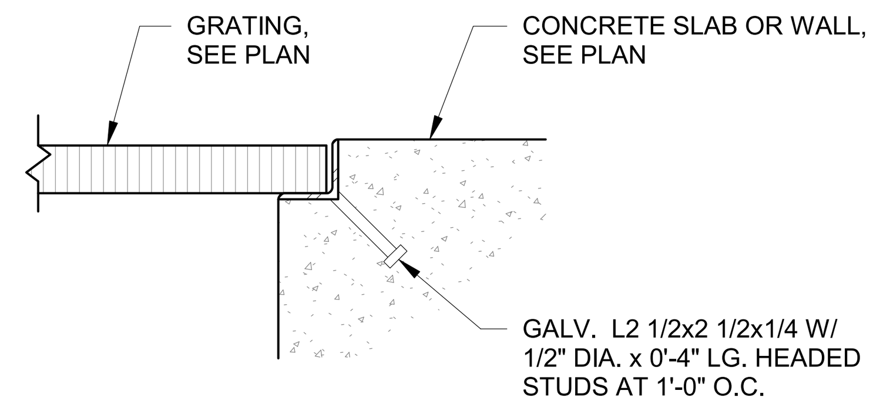
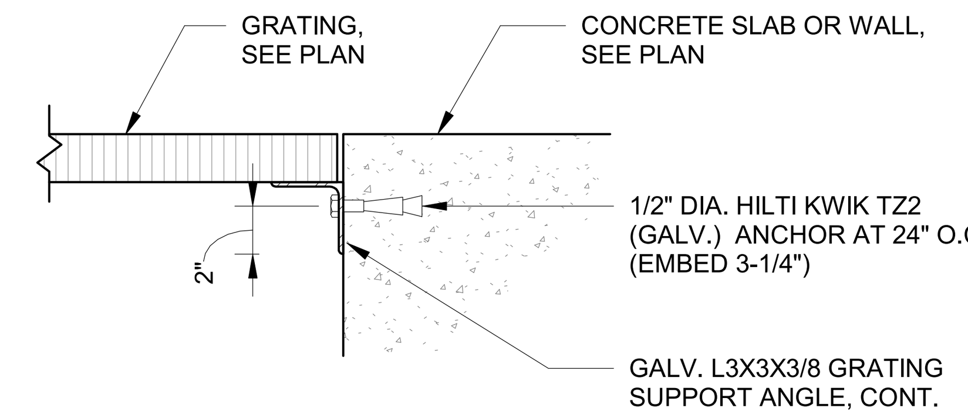
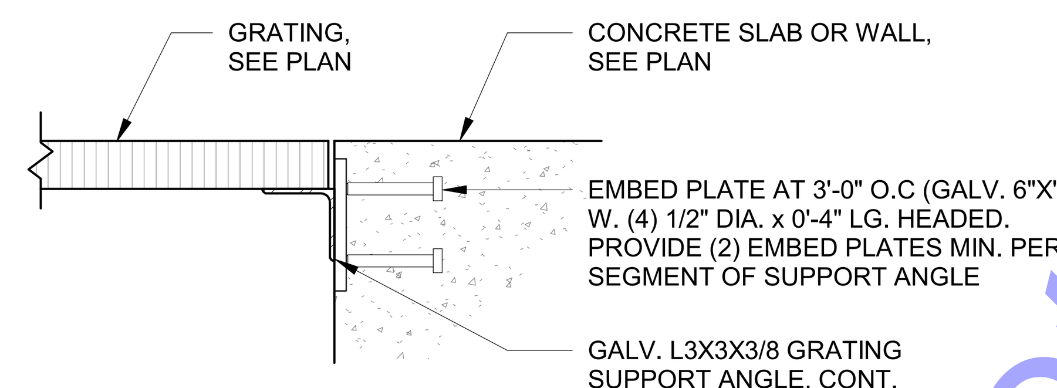


METHOD 1: EMBEDDED ANGLE

NOTE: THIS METHOD CAN ONLY BE USED WITH GRATING IS LOCATED AT TOP OF WALL OR SLAB



METHOD 2: SIDE MOUNTED ANGLE W/ EXPANSION ANCHORS



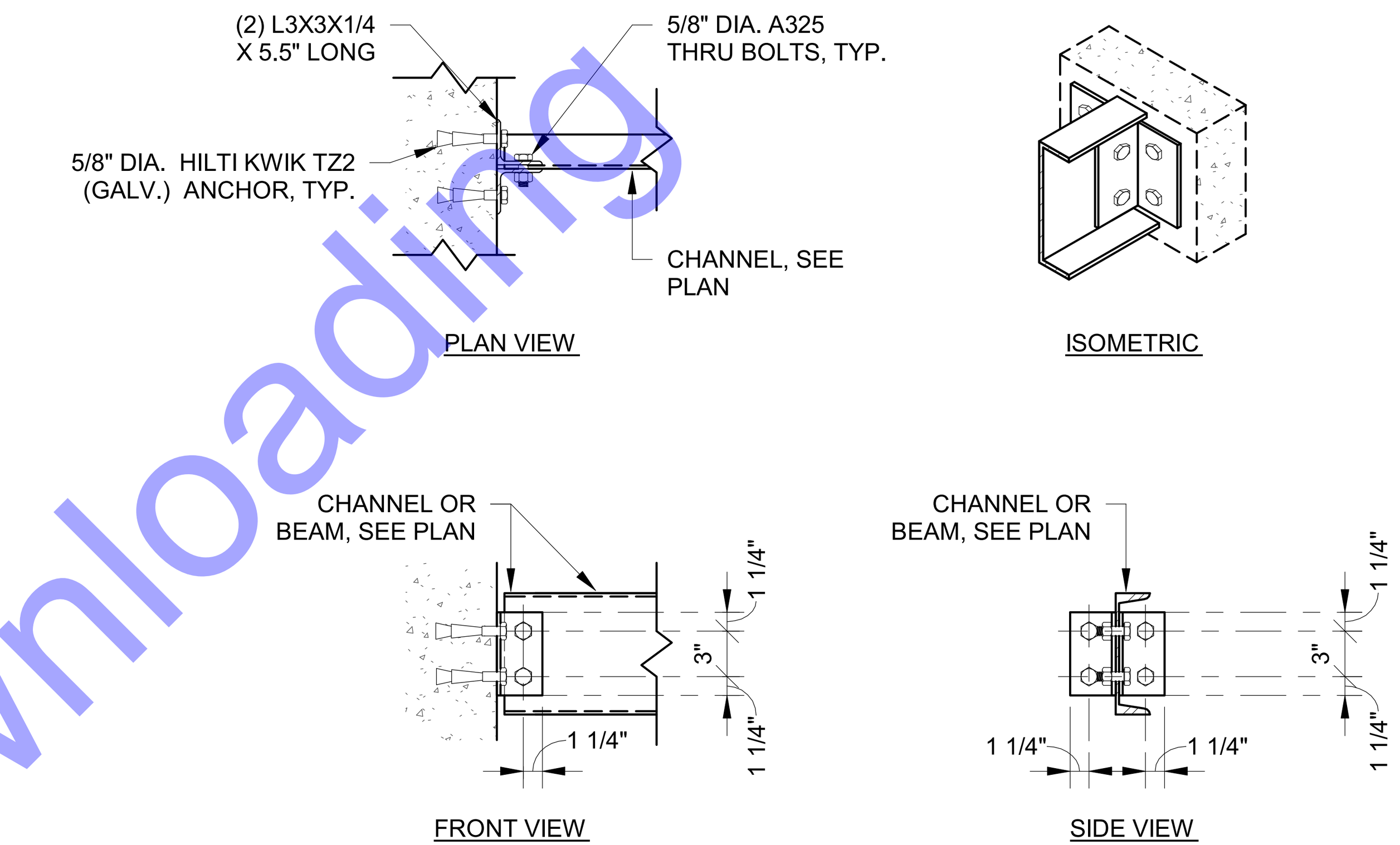
METHOD 3: SIDE MOUNTED ANGLE W/ EMBED PLATES

NOTE:

1. CONTRACTOR'S OPTION: UNLESS OTHERWISE NOTED ON PLANS, GRATING SUPPORT CAN BE PROVIDED BY ANY ONE OF THESE THREE METHODS WHERE GRATING EDGE IS SUPPORTED BY CONCRETE SLAB OR WALL.
2. SEE PROCESS DRAWINGS FOR LIMITS OF GRATING SUPPORT

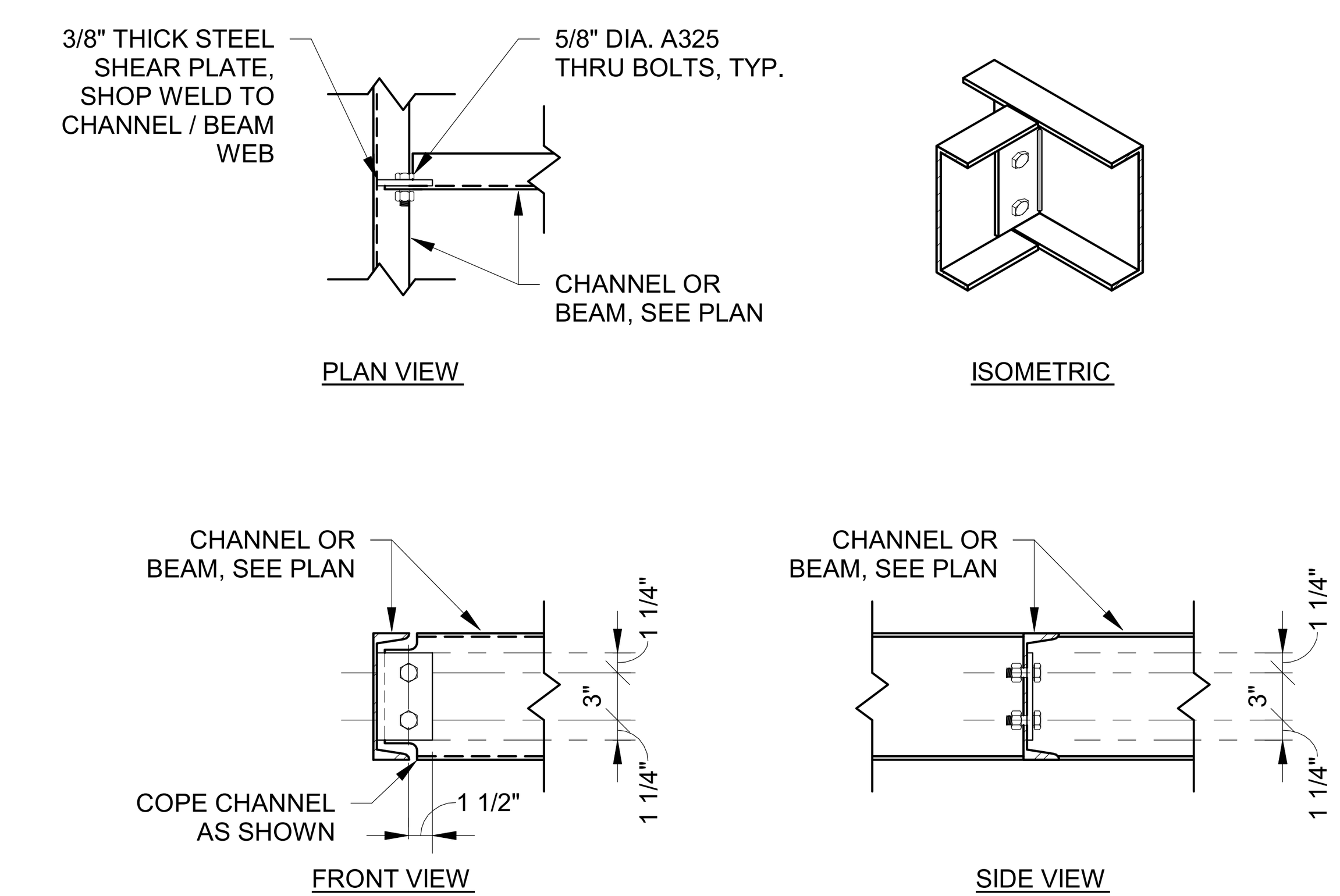
4 / S1-3 TYP. GRATING SUPPORT AT CONCRETE SLAB OR WALL

1 1/2" = 1'-0"



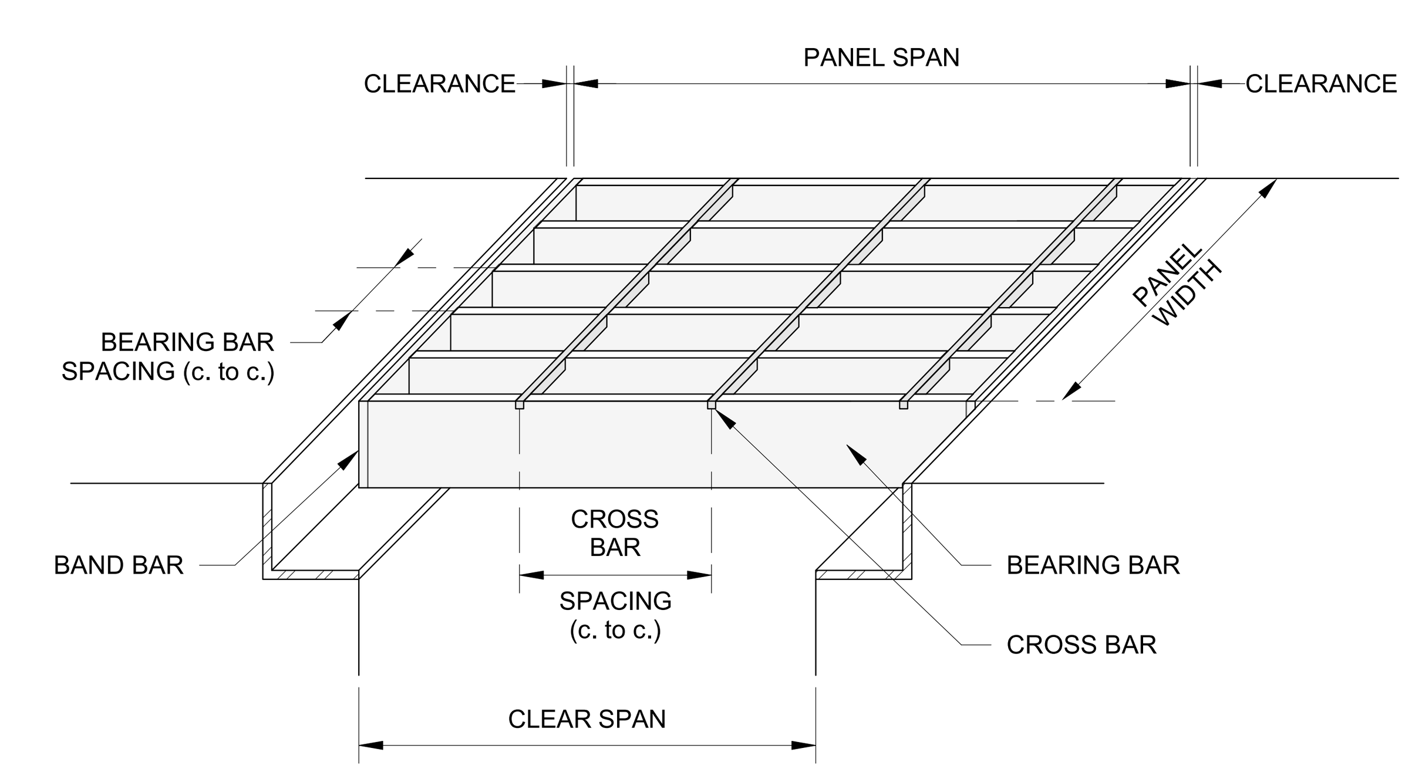
1 / S1-3 TYP. CHANNEL TO WALL CONNECTION

1" = 1'-0"



2 / S1-3 TYP. CHANNEL TO CHANNEL CONNECTION - SHEAR PLATE

1" = 1'-0"



3 / S1-3 TYP. GRATING PANEL

3" = 1'-0"

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JOHN DAVID TAYLOR
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Issue Date:	Project No:	Scale:
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TYPICAL STRUCTURAL DETAILS-FRAMING, GRATING, AND HANDRAIL DETAILS

Drawing No:
S1-3

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UPPER LEVEL PLAN NOTES

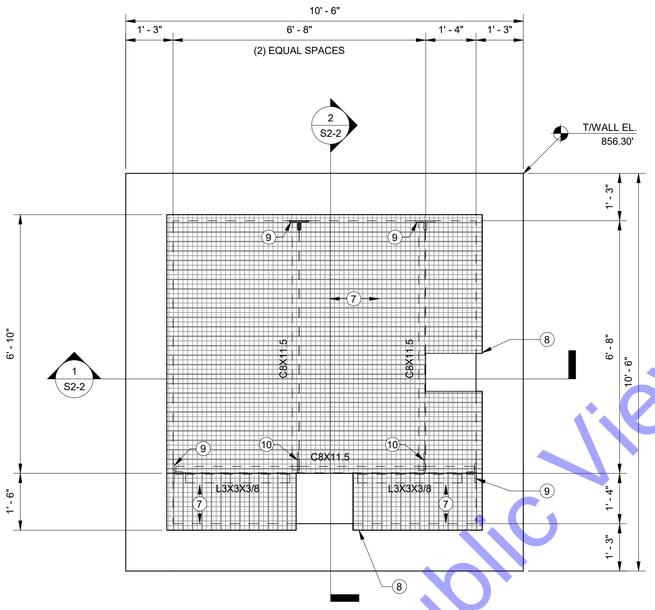
○ INDICATES NOTE REFERENCED IN PLAN

1. SEE THE S1-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
6. GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT (CJ) AND CONTRACTION JOINT (CT) LOCATION PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT. SEE DETAILS 6/S1-2 AND 7/S1-2 FOR WALL CONSTRUCTION JOINT AND WALL CONTRACTION JOINT REQUIREMENTS.
7. DENOTES 2-IN THICK ALUMINUM GRATING SPAN. GRATING SHALL BE SWAGE-LOCKED, 2" X 3/16" RECTANGULAR BAR, GAL-200, 19-S-4 SPACING, ALUMINUM ALLOY 6063-T6. SEE SPECIFICATION SECTION ('WM 19 - MISCELLANEOUS METALS AND ALUMINUM') FOR ADDITIONAL INFORMATION. GRATING SHALL BE SUPPROTED AT WALL EDGES PER TYPICAL DETAIL 4/S1-3 FOR METHOD #1.
8. PROVIDE OPENING IN GRATING AS REQUIRED TO ACCOMMODATE SLIDE GATE, SEE PROCESS DRAWINGS FOR INFORMATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION OF STEEL GRATING SUPPORTS IN ORDER TO AVOID CONFLICTS WITH GATE.
9. CHANNEL GRATING SUPPORTS SHOWN ON PLAN SHALL BE FASTENED TO CONCRETE PER DETAIL 1/S1-3.
10. SEE DETAIL 2/S1-3 FOR CHANNEL TO CHANNEL FRAMING CONNECTION.
11. ALL STEEL SHALL BE HOT-DIP GALVANIZED.

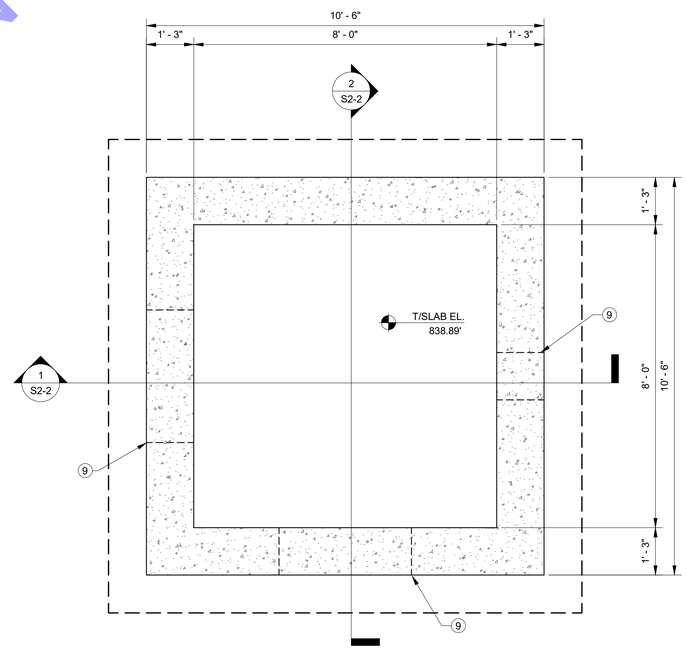
FOUNDATION PLAN NOTES

○ INDICATES NOTE REFERENCED IN PLAN

1. SEE THE S1-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
6. GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT (CJ) AND CONTRACTION JOINT (CT) LOCATION PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT. SEE DETAILS 6/S1-2 AND 7/S1-2 FOR WALL CONSTRUCTION JOINT AND WALL CONTRACTION JOINT REQUIREMENTS.
7. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
8. SEE PROCESS AND MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT PADS.
9. PIPE PENETRATION, SEE PROCESS DRAWINGS FOR OPENING SIZE, LOCATION, ELEVATION, SLEEVES, OTHER CONSTRUCTION REQUIREMENTS. SEE TYPICAL DETAILS 3/S1-2 FOR ADDITIONAL REINFORCEMENT REQUIRED AT OPENINGS.



2/S2-1 NEW DIVERSION STRUCTURE - TOP LEVEL PLAN
1/2" = 1'-0"



1/S2-1 NEW DIVERSION STRUCTURE - FOUNDATION PLAN
1/2" = 1'-0"

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NEW DIVERSION STRUCTURE PLAN VIEWS

Drawing No:
S2-1
Sheet: 52 OF 57

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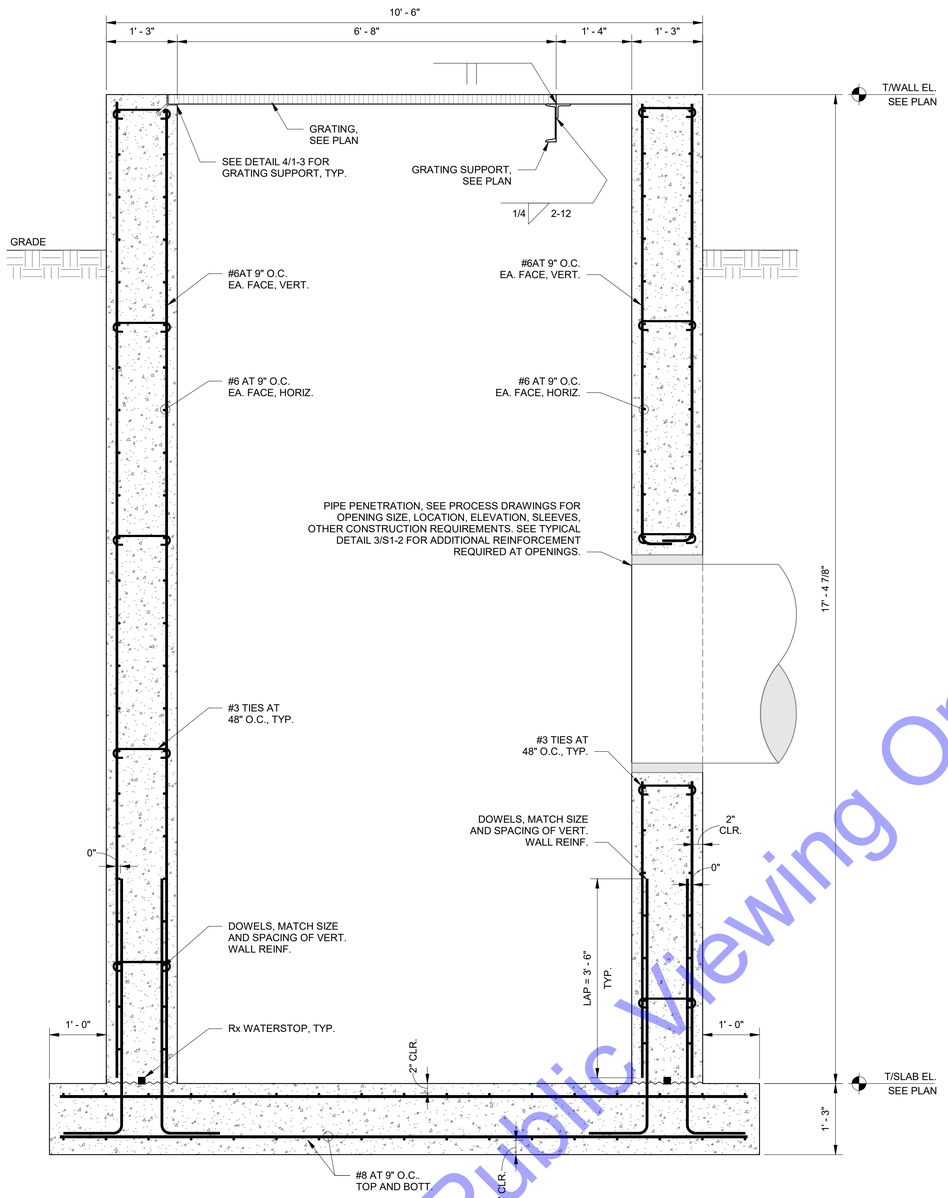
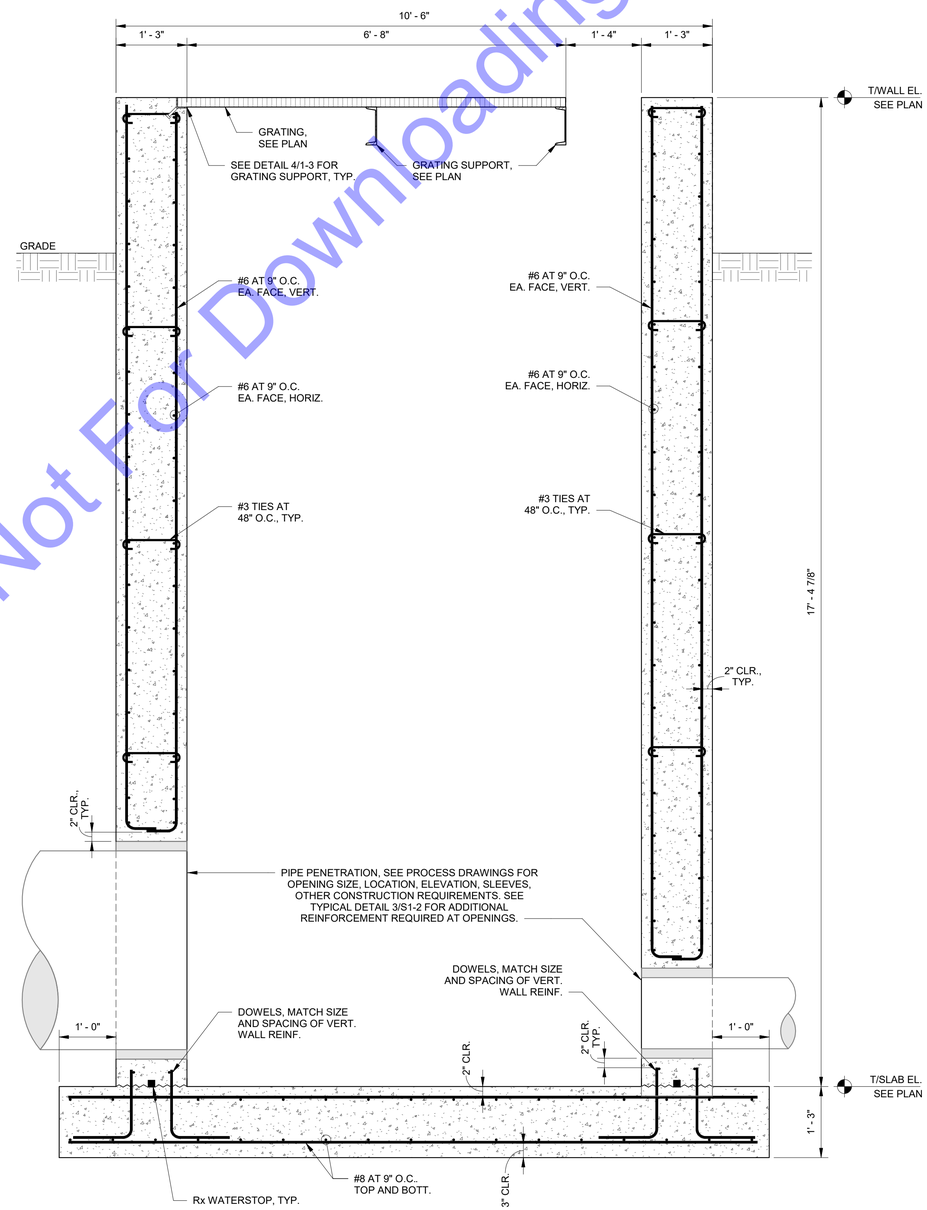


2 S2-2 SECTION
3/4" = 1'-0"



1 S2-2 SECTION
3/4" = 1'-0"

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NEW DIVERSION
STRUCTURE SECTIONS
AND DETAILS

Drawing No:
S2-2
Sheet: 53 OF 57

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PROCESS AND INSTRUMENTATION DIAGRAM LEGEND

INSTRUMENT TAG IDENTIFICATION

AREA / TAG FUNCTION / TAG TYPE / TAG NUMBER / (QUAN)	0350 / HOA / PAH / 1234A / (2)

COMPONENT DESIGNATOR

AREA 035D: BUILDING OR PROCESS AREA NUMBER

TAG TYPE P: FIRST LETTER, SEE ISA TABLE BELOW
AH: SUCCEEDING LETTERS, SEE ISA TABLE BELOW

TAG NUMBER 12: P&ID NUMBER
3: LOOP NUMBER
4: EQUIPMENT NUMBER
A: DEVICE LETTER IF MULTIPLE DEVICES

TAG FUNCTION HOA: TAG FUNCTION ABBREVIATION, SEE LISTING AT RIGHT

(QUANTITY) (2): TOTAL NUMBER OF DEVICES WHERE MORE THAN ONE DEVICE IS REQUIRED. DEVICE NUMBERS ARE SEQUENTIAL BEGINNING WITH THE TAG NUMBER SHOWN. IF QUANTITY IS NOT SHOWN, THEN ONE DEVICE ONLY IS REQUIRED.

COMPONENT DESIGNATOR SEE LISTING AT RIGHT

PLC POINT TYPE

- ANALOG INPUT
- ANALOG OUTPUT
- DISCRETE INPUT
- DISCRETE OUTPUT
- NETWORK CONNECTION

TAG FUNCTION ABBREVIATIONS

ALT ALTERNATE
C CLOSED(C)
CM COMPUTER-MANUAL
DIFF DIFFERENCE OR DIFFERENTIAL
DO DISSOLVED OXYGEN
F FAIL
F(X) CHARACTERIZED
FOR FOWARD-STOP(OFF)-REVERSE(MAINTAINED CONTACT)
FSR FOWARD-STOP-REVERSE(MOMENTARY CONTACT)
HOA HAND-OFF-AUTOMATIC(MAINTAINED CONTACT)
HOR HAND-OFF-REMOTE(MAINTAINED CONTACT)
II CURRENT TO CURRENT
IP CURRENT TO PNEUMATIC
LL LEAD-LAG(MAINTAINED CONTACT)
LOE LOSS OF ECHO(ULTRASONIC SENSOR FAILURE)
LOR LOCAL-OFF-REMOTE(MAINTAINED CONTACT)
LOS LOCKOUT STOP(LOCKABLE IN "STOP" POSITION MOMENTARY CONTACT)
L/R LOCAL/REMOTE(MAINTAINED CONTACT)
MA MANUAL-AUTOMATIC(MAINTAINED CONTACT)
MOA MANUAL-OFF-AUTOMATIC(MAINTAINED CONTACT)

O OPEN
OA OFF-AUTOMATIC
OCA OPEN-CLOSE-AUTOMATIC(MAINTAINED CONTACT)
OC OPEN-CLOSE(D)(MAINTAINED CONTACT)
OSC OPEN-STOP-CLOSE(MOMENTARY CONTACT SPRING RETURN TO CENTER POSITION)
00 ON-OFF(MAINTAINED CONTACT)
OOA ON-OFF-AUTOMATIC(MAINTAINED CONTACT)
OOR ON-OFF-REMOTE(MAINTAINED CONTACT)
R RUN
SBL SLUDGE BLANKET INTERFACE LEVEL
SP SPEED POT
SQRT SQUARE ROOT
SS START-STOP
SSA START-STOP-AUTOMATIC
SSL START-STOP-LOCK (LOCKABLE IN "STOP" POSITION. MOMENTARY CONTACT)
SUM SUMMMATION
VIB VIBRATION
X MULTIPLY

FWD FOWARD
REV REVERSE
F/R FOWARD/REVERSE(MOTOR STARTER COILS)
ESTP ESTOP(EMERGENCY STOP)
SPD (SPEED POT)
SUSP SUSPEND
ALRT ALERT
RSET RESET
STRT START

TAG SYMBOLS

HORIZONTAL BAR SYMBOLS FOR PHYSICAL MOUNTING OF DEVICE

SINGLE FUNCTION SINGLE/MULTI I/O DEVICE NON-CONFIGURABLE NON-PROGRAMMABLE		MULTI FUNCTION MULTI I/O PROGRAMMABLE DEVICE
	FIELD MOUNTED	
	MAIN CONTROL ROOM PANEL NORMALLY ACCESSIBLE	
	BEHIND MAIN CONTROL PANEL NOT NORMALLY ACCESSIBLE	
	LOCAL PANEL NORMALLY ACCESSIBLE	
	LOCAL PANEL - NOT NORMALLY ACCESSIBLE	

CONTROL AND I/O DEVICES DISPLAY

[ADD APPROPRIATE HORZ. BAR(S)]

- NON-DISPLAYED CONFIGURABLE DEVICE (SEMI-PROGRAMMABLE)
- NON-DISPLAYED PROGRAMMABLE DEVICE (ie: PLC)
- DISPLAYED CONFIGURABLE DEVICE (SEMI-PROGRAMMABLE)
- DISPLAYED PROGRAMMABLE DEVICE
- DISPLAYED PROGRAMMABLE POINT (HMI TOUCH SCREEN OR SCADA SOFTWARE)

INSTRUMENT SOCIETY OF AMERICA TABLE

LETTER	FIRST LETTER(S)		SUCCEEDING LETTER(S)		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM(W. LOGGING)	ANNUNCIATE	
B	BURNER COMBUSTION		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)
C	USERS CHOICE(*)			CONTROL	CLOSE
D	USERS CHOICE(*)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			FEEDBACK
G	USERS CHOICE(*)		GLASS		
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME OR SCHEDULE	TIME RATE OF CHANGE	KEYPAD(DATA ENTRY)	CONTROL STATION	
L	LEVEL		LIGHT(PILOT)		LOW
M	MOTOR	MOMENTARY			MONITORING
N	USERS CHOICE(*)		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)
O	USERS CHOICE(*)		ORIFICE		
P	PRESSURE OR VACUUM		POINT TEST CONNECTION		
Q	QUANTITY	INTEGRATE			
R	RADIATION		RECORD, TREND, LOG		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSIT	
U	UNIVERSAL/MULTIVARIABLE(*)		MULTIFUNCTION(*)	MULTIFUNCTION(*)	MULTIFUNCTION(*)
V	VIBRATION		VALUE	VALVE	
W	WEIGHT, FORCE, TORQUE		WELL	W	
X	UNCLASSIFIED(*)	X AXIS	UNCLASSIFIED(*)	UNCLASSIFIED(*)	UNCLASSIFIED(*)
Y	EVENT, STATE	Y AXIS		RELAY OR COMPUTE(*)	
Z	POSITION, DIMENSION	Z AXIS		DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL

SPECIAL CASES:
ETM - ELAPSED TIME METER
JBX - JUNCTION BOX
NDX - INDEX #
MS - MOTOR STARTER
MOR - MOTOR OVERLOAD RELAY
MPR - MOTOR PROTECTION RELAY

CONDUIT NOTES

PVC SCHEDULE 40 BELOW GRADE.

RIGID ALUMINUM OR PVC COATED RGS CONDUIT ABOVE GRADE OUTDOORS.

RIGID ALUMINUM OR PVC COATED RGS CONDUIT IN CLASSIFIED AND CORROSIVE SPACES.

NO CONDUIT SHALL BE INSTALLED ON TOP OF A DECK, ON A WALKWAY, OR IN AN AREA THAT MAY POSE A TRIP HAZARD. NO CONDUIT SHALL BE INSTALLED ABOVE A DECK, ABOVE A WALKWAY, OR IN AN AREA THAT IS COMMONLY TRAVELED. ALL CONDUIT IN SUCH AREAS SHALL BE COORDINATED WITH THE OWNER/ENGINEER AND SHALL BE INSTALLED BELOW GRADE OR IN THE CONCRETE DECKING OR PAD. CONDUIT INSTALLED IN CONCRETE DECKING OR PAD SHALL BE AVOIDED WHEN POSSIBLE. IF CONDUIT IS TO BE ROUTED IN A STRUCTURAL CONCRETE DECK, PAD, WALL, ETC. IT SHALL BE COORDINATED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. CONDUIT INSTALLED IN CONCRETE CAN IMPACT THE STRUCTURAL INTEGRITY OF CONCRETE. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFORM TO ANY REQUIREMENTS REQUIRED OF THE STRUCTURAL ENGINEER TO ACCOMMODATE THE INTEGRITY OF THE INSTALLATION AT NO COST TO THE OWNER. FOR A CONDUIT EMBEDDED IN CONCRETE TO BE CONSIDERED IT MUST BE THE ONLY REASONABLE SOLUTION AS DETERMINED BY THE ENGINEER. ALL PROPOSED INSTALLATIONS MUST COMPLY WITH ACI 318 AND BE ENGINEER APPROVED.

ALL UNDERGROUND CONDUITS SHALL BE SEALED AT BOTH ENDS.

NO CONDUIT PENETRATIONS ON THE TOP OF ANY OUTDOOR PANELS/ENCLOSURES.

EMT IS ACCEPTABLE IN CONDITIONED ELECTRICAL ROOMS AND OFFICE/BREAK AREAS ONLY. EMT SHALL BE TRANSITIONED PRIOR TO EXITING NON CORROSIVE SPACES. EMT SHALL NOT BE USED WHEN IT CAN BE EXPOSED TO ANY CORROSIVE GASES.

CONTROL WIRING REQUIREMENTS

EACH ANALOG INPUT REQUIRES AN 18/2 TWISTED SHIELDED PAIR IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

EACH ANALOG OUTPUT REQUIRES AN 18/2 TWISTED SHIELDED PAIR IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

EACH DISCRETE INPUT REQUIRES 2 #14's IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

EACH DISCRETE OUTPUT REQUIRES 2 #14's IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

CONTROL WIRING OF THE SAME TYPE MAY BE COMBINED INTO THE SAME CONDUIT. EXAMPLES: TWO 4-20MA ANALOG SIGNALS MAY BE COMBINED, TWO 24VDC DISCRETE SIGNALS MAY BE COMBINED, AND TWO 120VAC DISCRETE SIGNALS MAY BE COMBINED.

NOTE: INSTRUMENTS AND CABLE SHALL BE AS REQUIRED BY THE INSTRUMENT MANUFACTURER.

INSTRUMENT POWER

INSTRUMENTS REQUIRING 120 VAC:

1. MAGNETIC FLOW METERS
2. TURBIDITY TRANSMITTERS
3. pH TRANSMITTERS
4. ORP TRANSMITTERS
5. DO TRANSMITTERS
6. ULTRASONIC LEVEL TRANSMITTERS
7. ULTRASONIC FLOW TRANSMITTERS
8. INFLUENT AND EFFLUENT SAMPLERS

NOTE: THIS LIST IS PROVIDED AS A REFERENCE AND IS NOT ALL INCLUSIVE. COORDINATE WITH THE GENERAL CONTRACTOR AND THE EQUIPMENT SUPPLIERS FOR DETAILED WIRING REQUIREMENTS OF INSTRUMENTS, SENSORS, AND EQUIPMENT.

ELECTRICAL GENERAL NOTES

(GENERAL NOTES APPLICABLE TO ALL ELECTRICAL SHEETS)

1. CONTRACTOR SHALL EXAMINE NOT ONLY PLANS AND SPECIFICATIONS FOR ELECTRICAL AND INSTRUMENTATION, BUT PLANS AND SPECIFICATIONS FOR OTHER RELATED SECTIONS. VISIT THE SITE TO BECOME ACQUAINTED WITH ALL PROJECT CONDITIONS INCLUDING EXISTING CONDITIONS. EXECUTION OF CONTRACT IS EVIDENCE THAT THE CONTRACTOR HAS EXAMINED ALL DRAWINGS AND SPECIFICATIONS AND THAT ALL CONDITIONS OF INSTALLING THE WORK IN THIS SECTION ARE VERIFIED. LATE CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATIONS BEEN MADE WILL NOT BE RECOGNIZED.
2. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF REQUIRED CONSTRUCTION, EQUIPMENT, AND MATERIALS. PROVIDE ALL MATERIALS AND WORK NOT SPECIFICALLY MENTIONED, SHOWN, OR CAN BE REASONABLY INFERRED ON THE DRAWINGS BUT WHICH ARE NECESSARY TO FULLY COMPLETE THE WORK.
3. WHEN SUBSTITUTING OTHER EQUIPMENT, MATERIALS, AND PRODUCTS THAN SPECIFIED IN THE CONTRACT DOCUMENTS, INCLUDE IN PRICING ALL COSTS FOR OTHER DESIGN CHANGES TO THE PROJECT (ALL DIVISIONS) WHICH WILL RESULT FROM USE OF THE SUBSTITUTED ITEM(S).
4. REVIEW THE CONTRACT DOCUMENTS OF OTHER DIVISIONS, AND COORDINATE ELECTRICAL AND CONTROL WORK WITH THE WORK OF OTHER DISCIPLINES TO AVOID CONFLICTS AND INTERFERENCE.
5. UPON COMPLETION OF THE WORK REQUIRED UNDER THIS CONTRACT, PROVIDE TYPED UPDATED DIRECTORY WITHIN DOOR OF EACH AFFECTED PANELBOARD. LEAVE "SPARE" BREAKERS IN "OFF" POSITION.
6. ALL MOUNTING HEIGHTS INDICATED ON DRAWINGS ARE TO CENTERLINE, UON.
7. PROVIDE LIGHTING FIXTURES COMPATIBLE WITH CEILING CONSTRUCTION. COORDINATE WITH ARCHITECTURAL ROOM FINISH SCHEDULES.
8. IN AREAS HAVING FINISHED CEILINGS, LOCATE CEILING-MOUNTED ELECTRICAL DEVICES AND FIXTURES ACCORDING TO ARCHITECTURAL REFLECTED CEILING PLAN. DO NOT INSTALL CEILING-MOUNTED SMOKE DETECTORS WITHIN 4 FEET OF HVAC SUPPLY DIFFUSERS.
9. IN ELECTRICAL AND MECHANICAL EQUIPMENT SPACES, COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES WITH CONDUIT BANKS, DUCTWORK, PIPING, STRUCTURE, SUPPORTS, AND OTHER OBSTRUCTIONS. LOCATE FIXTURES SUCH THAT DIALS, GAUGES, METERS, ETC. ARE PROPERLY ILLUMINATED.
10. DO NOT USE ANY LIGHTING FIXTURE AS A RACEWAY FOR CONDUCTORS NOT SERVING THAT PARTICULAR FIXTURE.
11. CONNECT BATTERY-OPERATED EMERGENCY LIGHTING UNITS AND EXIT SIGNS HAVING BATTERY BACK-UP TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NEC SUCH THAT FAILURE OF CIRCUIT TRANSFERS UNIT FROM NORMAL TO EMERGENCY MODE, CAUSING LAMPS TO RE-ENERGIZE.
12. DO NOT INSTALL OUTLET BOXES BACK-TO-BACK IN NON-RATED PARTITIONS. OFFSET AND SEAL, SIMILAR TO REQUIREMENTS FOR RATED PARTITIONS, TO MINIMIZE SOUND TRANSMISSION.
13. COORDINATE ROUTING OF ALL LARGE CONDUITS (2" DIA AND LARGER) AND PULL BOX LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION TO AVOID CONFLICTS AND TO GUARANTEE REQUIRED CLEARANCE AND ACCESSIBILITY OF ELECTRICAL AND OTHER SYSTEMS.
14. COORDINATE WITH OWNER OR OWNER'S SELECTED VENDOR PRIOR TO ROUGH-IN FOR EXACT LOCATIONS OF SPECIAL PURPOSE OUTLETS DEDICATED TO SPECIFIC EQUIPMENT. VERIFY REQUIRED NEMA CONFIGURATION OF ALL SUCH OUTLETS.
15. PROVIDE APPROPRIATE PULL WIRE IN EACH EMPTY SYSTEMS CONDUIT INCLUDED IN THIS PROJECT.
16. INCLUDE GREEN-INSULATED GROUNDING CONDUCTOR SIZED PER 2002 NEC TABLE 250-122 WITH ALL BRANCH CIRCUIT CONDUCTORS SERVING LIGHTING FIXTURES, RECEPTACLES, MECHANICAL OR OTHER DEVICES INSTALLED AT OR BELOW 8'-0".
17. MATCH A.I.C. RATINGS AND OTHER CHARACTERISTICS OF EXISTING DEVICES IN PANELBOARD WHEN ADDING BREAKERS TO EXISTING PANELBOARDS.
18. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY INDIANA, THE INDIANA CODE AMENDMENT, LOCAL/MUNICIPAL CODE, AND THE AUTHORITIES HAVING JURISDICTION.
19. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 12" IN LENGTH, NOR GREATER THAN 36" IN LENGTH.
20. ALL CONDUIT PENETRATIONS SHALL BE SEALED WITH APPROPRIATE CONDUIT SEALING MATERIAL.
21. ALL CABLE SIZES SHALL UTILIZE COPPER CONDUCTORS.
22. FIELD VERIFY LOCATIONS OF BUILDING EXPANSION JOINTS WHEN ROUTING CONDUIT. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH THE EXPANSION FITTINGS. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURERS WRITTEN RECOMMENDATIONS.
23. FEEDERS FROM PANELBOARDS BACK TO MAIN SWITCHBOARD, BETWEEN AUTO TRANSFER SWITCHES AND THEIR SOURCES/LOADS, BETWEEN DRY TRANSFORMERS AND THEIR SOURCES/LOADS ARE NOT INDICATED. FEEDERS ARE PART OF THE WORK, AND SHALL BE SIZED AS INDICATED ON THE LINE DIAGRAM.
24. HOMERUNS SHALL NOT BE COMBINED IN A RACEWAY UNLESS SHOWN ON THE CONTRACT DRAWINGS. SINGLE PHASE BRANCH CIRCUIT HOMERUNS MAY BE COMBINED AT THE CONTRACTORS DISCRETION NOT GREATER THAN (3) PHASE CONDUCTORS, NEUTRAL CONDUCTORS, AND A GROUNDING CONDUCTOR.
25. EACH SINGLE PHASE BRANCH CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL BACK TO THE PANEL.
26. ALL PENETRATIONS BELOW GRADE SHALL USE LINK SEALS.
27. WHERE LOW VOLTAGE (CONTROL) CABLING IS ALLOWED TO BE INSTALLED WITHOUT A RACEWAY, IT SHALL BE SUPPORTED NOT EXCEEDING INTERVALS OF 48", AND NOT MORE THAN 6" FROM THE CABINETS, BOXES, FITTINGS, OUTLETS, RACKS, FRAMES AND TERMINALS.
28. ALL MOUNTING HARDWARE INCLUDING NUTS, BOLTS, SCREWS, WASHERS, ETC. SHALL BE STAINLESS STEEL.
29. MOUNT JUNCTION BOXES AND DISCONNECT SWITCHES ON STAINLESS STEEL UNISTRUT.
30. ALL UNISTRUT, MOUNTING BRACKETS AND SUPPORTING STRUCTURES SHALL BE STAINLESS STEEL.
31. DO NOT MIX CONTROL AND POWER CONDUCTORS IN THE SAME CONDUIT. DO NOT MIX DISCRETE AND ANALOG CONTROL CONDUCTORS IN THE SAME CONDUIT.
32. ADJUSTABLE SPEED DRIVES (ASD) LINE AND LOAD WIRE SHALL BE RUN IN SEPARATE RACEWAYS.
33. CONTRACTOR SHALL COORDINATE WITH HEAT TRACE MANUFACTURER DURING BIDDING AND CONSTRUCTION AND SHALL PROVIDE ALL CONDUIT, WIRING, AND CIRCUITS AS REQUIRED. HEAT TRACE SHALL BE PROVIDED/INSTALLED COMPLETE. ALL HEAT TRACE IS REQUIRED TO BE GFI PROTECTED.
34. CONTRACTOR SHALL NOT COMBINE POWER FEEDS FOR THREE PHASE LOADS.
35. THE BELOW LOCATIONS ARE WHERE GFCI OUTLETS ARE REQUIRED:
   35.1. KITCHENS: ALL KITCHEN OUTLETS.
   35.2. BATHROOMS: GFCI OUTLETS ARE REQUIRED IN BATHROOMS NEAR THE SINK.
   35.3. GARAGES: GFCI OUTLETS ARE REQUIRED IN GARAGES THAT HAVE SINKS.
   35.4. BASEMENTS: UNFINISHED BASEMENTS REQUIRE AT LEAST ONE GFCI OUTLET.
   35.5. OUTDOOR SPACES: GFCI OUTLETS ARE REQUIRED IN OUTDOOR AREAS THAT ARE ACCESSIBLE OR AT GRADE LEVEL.
   35.6. LAUNDRY ROOMS: ALL LAUNDRY ROOM OUTLETS.
   35.7. CRAWL SPACES: GFCI OUTLETS ARE REQUIRED IN CRAWL SPACES WHERE MECHANICAL EQUIPMENT IS LOCATED.
   35.8. UTILITY ROOMS: ALL UTILITY ROOM OUTLETS.
36. LIMIT CAT 6E INSTALLATION TO 230' MAXIMUM DISTANCE. CONTRACTOR SHALL FURNISH AND INSTALL FIBER OPTIC CABLE AND MEDIA CONVERTERS IF CONDUIT ROUTING EXCEEDS CAT 6E LIMITS.

LEGEND

SYMBOL	DESCRIPTION	MTG HGT AFF TO CL, UON
	OPEN LIGHTING FIXTURE SYMBOLOGY DENOTING FIXTURES CONNECTED TO NORMAL POWER: FIXTURE TYPE DETERMINES MOUNTING.	-----
	SINGLE DIAGONAL LIGHTING FIXTURE SYMBOLOGY DENOTING FIXTURES CONNECTED TO CRITICAL OR EQUIPMENT BRANCH (OR EMERGENCY POWER), UON: FIXTURE TYPE DETERMINES MOUNTING.	-----
	DOUBLE DIAGONAL LIGHTING FIXTURE SYMBOLOGY DENOTING FIXTURES CONNECTED TO LIFE SAFETY BRANCH (OR EMERGENCY POWER), UON: FIXTURE TYPE DETERMINES MOUNTING.	-----
	BATTERY POWERED EMERGENCY LIGHTING UNIT	7'-6"
	EXIT SIGN: ARROWS DENOTE DIRECTIONAL INDICATING CHEVRON RQMTS, SHADING DENOTES FACE(S) ORIENTATION.	-----
	WALLWASH OR OTHER DIRECTIONALLY ADJUSTABLE/AIMABLE FIXTURE: OPEN SIDE DENOTES ORIENTATION. TYPE DETERMINES MOUNTING.	-----
	TRACK LIGHTING FIXTURE: TYPE DETERMINES MOUNTING.	-----
	POLE-MOUNTED SITE LIGHTING FIXTURE: TYPE DETERMINES MTG.	-----
	FLOOD LIGHTING FIXTURE: TYPE DETERMINES MOUNTING.	-----
PC	PHOTO-CELL	-----
	ALL FIXTURES IN THIS SPACE SHALL BE SAME TYPE INDICATED, U.O.N.	
S	SINGLE-POLE TOGGLE SWITCH	3'-10"
$	SINGLE-POLE TOGGLE SWITCH: SLASH DENOTES ESSENTIAL POWER SYSTEM CONNECTION - TYPICAL FOR ALL SWITCHES.	3'-10"
OS W	DUAL TECHNOLOGY, WALL MNTD OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH	3'-10"
OS C	DUAL TECHNOLOGY, CEILING MNTD OCCUPANCY SENSOR WITH REMOTE MANUAL OVERRIDE SWITCH	
S_{OR}	SINGLE-POLE REMOTE OVERRIDE SWITCH FOR CEILING MNTD OCCUPANCY SENSOR	3'-10"
S_D	DIMMER SWITCH	3'-10"
$S_D{}^3$	THREE-WAY DIMMER SWITCH	3'-10"
S_P	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	3'-10"
S_M	SINGLE-POLE MOTOR-RATED TOGGLE SWITCH DISCONNECT	3'-10"
S_T	SINGLE-POLE OR DOUBLE-POLE MANUAL MOTOR STARTER WITH MELTING ALLOY ELEMENTS FOR THERMAL OVERLOAD PROTECTION	3'-10"
S_{IR}	OCCUPANCY SENSOR SWITCH	3'-10"
S_{IT}	INTERVAL TIMER RESET AND CONTROL SWITCH	3'-10"
S_J	JOG SWITCH	3'-10"
	MUSHROOM HEAD TYPE PUSHBUTTON STATION	5'-0"
P	AUTO DOOR CONTROL PUSHPLATE	-----
S_V	VARIABLE INTENSITY CONTROLLER INCLUDED WITH OWNER-FURNISHED-CONTRACTOR-INSTALLED SURGICAL LIGHTING FIXTURE	5'-0"
S_{LV}	LOW VOLTAGE CONTROL SWITCH	3'-10"
WS	FACTORY SUPPLIED WALL CONTROLLER FOR CEILING MOUNTED LIGHT-INSTALLED BY ELECTRICAL CONTRACTOR	3'-10"
	120V DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"
	120V DUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	120V QUADRUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"
	120V QUADRUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	120V SINGLE RECEPTACLE, AMP RATING (IF OTHER THAN 20A) SHOWN: STANDARD MOUNTING HEIGHT, OR OTHER HEIGHT AS NOTED	1'-6", UON
GFCI	120V GFCI DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"
	120V GFCI QUADRUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	120V GFCI DUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	SINGLE RECEPTACLE (OTHER THAN 120V), VOLTAGE, AMP RATING, NEMA CONFIGURATION, AND MOUNTING HEIGHT AS NOTED	-----
	RECPTACLE OR J-BOX CONNECTION FOR X-RAY VIEWER: VERIFY CONNECTION RQMTS WITH UNIT FURNISHED PRIOR TO ROUGH-IN	-----
	120V DUPLEX RECEPTACLE IN FLUSH FLOOR-MOUNTED BOX	-----
TP	TELE-POWER POLE	-----
H	HALON DUMP STATION	-----
F	FIRE ALARM MANUAL PULL STATION	3'-10"
FK	FIRE ALARM MANUAL PULL STATION, KEY-OPERATED	3'-10"
D	FIRE ALARM CEILING-MOUNTED SMOKE DETECTOR	-----
H	FIRE ALARM CEILING-MOUNTED HEAT DETECTOR	-----
D_S	FIRE ALARM SUPPLY AIR DUCT-MOUNTED SMOKE DETECTOR	-----
D_R	FIRE ALARM RETURN AIR DUCT-MOUNTED SMOKE DETECTOR	-----
DR	FIRE ALARM PROJECTED BEAM SMOKE DETECTOR - RECEIVER	AS NOTED
DT	FIRE ALARM PROJECTED BEAM SMOKE DETECTOR - TRANSMITTER	AS NOTED
Y	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM VALVE STATUS SWITCH (TAMPER SWITCH)	-----
FS	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM WATER FLOW SWITCH	-----
F	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE-CHIME & STROBE	6'-8"
F	FIRE ALARM AUDIO/VISIUAL NOTIFICATION DEVICE-HORN & STROBE	6'-8"
F	FIRE ALARM VISUAL ONLY NOTIFICATION DEVICE - STROBE LIGHT	6'-8"
FS FS	FIRE ALARM SPEAKER: CEILING-MOUNTED, WALL-MOUNTED	6'-8"
FH	FIRE ALARM HORN, WALL-MOUNTED	AS NOTED
RI RI	DUCT SMOKE DETECTOR ALARM REMOTE INDICATOR LIGHT: CEILING-MOUNTED, WALL-MOUNTED	6'-8"
SAI SAI	DUCT SMOKE DETECTOR ALARM REMOTE INDICATOR LIGHT AND TEST SWITCH: CEILING-MOUNTED, WALL-MOUNTED	6'-8"
Z	FIRE ALARM ZONE ADDRESSABLE MODULE	-----
I	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE	-----
	FIRE ALARM ELECTRO-MAGNETIC DOOR HOLDER	6'-4"
FR	FIRE RELAY	-----
ID	DESK MOUNTED INTERCOM	-----
IW	WALL MOUNTED INTERCOM	-----
$\$_X$	EXPLOSION PROOF SWITCH	3'-10"
$\$_3$	3 WAY SWITCH	3'-10"
$\$_4$	4 WAY SWITCH	3'-10"
$\$_{WP}$	NEMA 4X SWITCH	3'-10"

PUMP AND METER LEGEND

SYMBOL	DESCRIPTION
M	MAGNETIC FLOW METER
	SONIC FLOW METER
	CENTRIFUGAL PUMP
	LOBE PUMP
	PERISTALTIC PUMP
	SUBMERSIBLE PUMP
	GRINDER PUMP

LEGEND

ABBREVIATIONS

ABV	ABOVE	IG	ISOLATED GROUND
AFF	ABOVE FINISHED FLOOR	MON	MONITOR
ACLG	ABOVE FINISHED CEILING	MTG	MOUNTING
BFC	BELOW FINISHED CEILING	MV	MULTI-VIEWER
C	CRITICAL BRANCH OR EMERG PWR-RED DEVICE & PLATE, UON.	MW	MICROWAVE OVEN
CL	CENTER-LINE	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING-MOUNTED	OCPD	OVERCURRENT PROTECTIVE DEVICE
COF	COFFEE MAKER	OFCI	OWNER-FURNISHED-CONTRACTOR-INSTALLED
COP	COPIER	OFE	OWNER-FURNISHED EQUIPMENT
CTR	COUNTER	PRT	PRINTER
ECB	ENCLOSED CIRCUIT BREAKER	PTS	PNEUMATIC TUBE STATION
EMER	EMERGENCY	Q	EQUIP BRANCH OR EMERG PWR-RED DEVICE & PLATE, UON.
EWC	ELECTRIC WATER COOLER	REF	REFRIGERATOR
EWH	ELECTRIC WATER HEATER	RQMTS	REQUIREMENTS
FAX	FACSIMILE MACHINE	T	TAMPERPROOF DEVICE
FBO	FURNISHED BY OTHERS	TSP	TWISTED SHIELDED PAIR
GFCI	GROUND FAULT CIRCUIT INTERRUPT-ING - PERSONNEL PROTECTION	UON	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTING - EQUIPMENT PROTECTION	UCR	UNDER-COUNTER REFRIGERATOR
HGT	HEIGHT	WP	WEATHERPROOF
FPMR	FUSED PER MANUFACTURE'S RECOMMENDATIONS		

SYMBOL	DESCRIPTION	MTG HGT AFF TO CL, UON
	EXPOSED RACEWAY	-----
	RACEWAY CONCEALED IN OR ABOVE CEILINGS AND WITHIN WALLS	-----
	BRANCH CIRCUIT RACEWAY CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE	-----
	FEEDER RACEWAY CONCEALED BELOW FLOOR SLAB OR BELOW GRADE	-----
	LIGHTNING PROTECTION CABLING	-----
	HOMERUN RACEWAY: NUMBER OF ARROWHEADS DENOTES NUMBER OF CIRCUITS.	-----
	RACEWAY TURNING UP AS VIEWED FROM THE LOAD	-----
	RACEWAY TURNING DOWN AS VIEWED FROM THE LOAD	-----
	RACEWAY VERTICAL RISER WITH HORIZONTAL CONTINUATION AT TWO LEVELS SHOWN	-----
	CAPPED RACEWAY	-----
	GENERAL LIGHTING OR OUTLET CIRCUIT - MAY BE DAISY CHAINED	
J	JUNCTION BOX	AS NOTED
	ENCLOSED BREAKER	
	FUSIBLE SAFETY SWITCH (AMP RATING, POLES, FUSE SIZE, AND NEMA ENCLOSURE TYPE IF OTHER THAN 1 NOTED)	-----
	NON-FUSIBLE SAFETY SWITCH (AMP RATING, POLES, AND NEMA ENCLOSURE TYPE IF OTHER THAN 1 NOTED)	-----
	COMBINATION MAGNETIC ACROSS-THE-LINE STARTER WITH MOTOR CIRCUIT PROTECTOR (NEMA STARTER SIZE NOTED)	-----
	CONTROL PANEL FURNISHED INTEGRAL TO EQUIPMENT (SINGLE-POINT ELECTRICAL CONNECTION REQUIRED)	-----
	MOTOR	-----
	FLEXIBLE CONDUIT CONNECTION	-----
	SURFACE- OR FLUSH-MOUNTED LIGHTING/RECEPTACLE PANELBOARD	-----
	POWER DISTRIBUTION PANELBOARD	-----
T T	DRY TYPE TRANSFORMER	-----
XXX	MISCELLANEOUS SYSTEMS PANEL OR CABINET: REFER TO ABBREVIATIONS.	-----

NOTE !! ALL ABBREVIATIONS, NOTES, AND SYMBOLS SHOWN ON THIS DRAWING DO NOT NECESSARILY APPEAR IN THIS SET OF CONTRACT DOCUMENTS. REFER ONLY TO THOSE THAT APPLY.

MOTOR CONTROLLER LEGEND

SYMBOL	DESCRIPTION
MS	ACROSS THE LINE MOTOR STARTER
SS	SOFT STARTER
VFD	VARIABLE FREQUENCY DRIVE
MS	ACROSS THE LINE MOTOR STARTER WITH INTEGRAL DISCONNECT
SS	SOFT STARTER WITH INTEGRAL DISCONNECT
VFD	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	FIXTURE WITH STANDARD BALLAST.
	FIXTURE WITH STANDARD BALLAST AND EMERGENCY BALLAST.

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MICHAEL A. MIRANDE, II
REGISTERED
No. 19800084
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 04/25/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP PHASE III - COLLECTION SYSTEM IMPROVEMENTS

No.	Submittal / Revision	By	Date

Designed By:	Drawn By:	Checked By:
SD	SD	TLC
Issue Date:	Project No:	Scale:
4/28/25	S24169	AS SHOWN

ELECTRICAL LEGENDS AND SCHEDULES

Drawing No:
E0-0

File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\K MECH-ELECT\S24169-FAIRMOUNT-ELECTRICAL DRAWINGS.DWG
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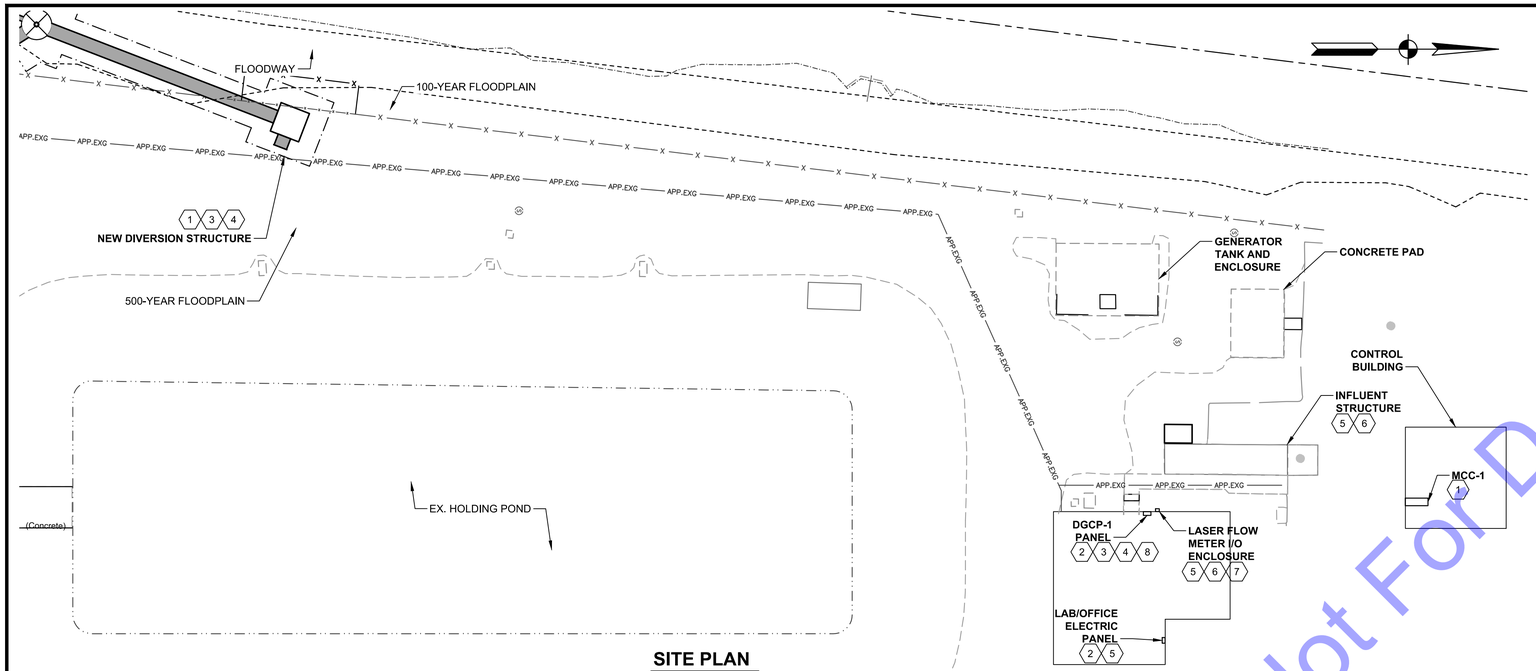

SITE PLAN

SCALE: 1"=20'-0"

0 20' 40'

MCC-1 CONTROL BUILDING ELECTRICAL ROOM

LASER VELOCITY FLOW METER LOCATION

3-PHASE 20 AMP MCC BREAKERS 2I, 2K

CUTLER HAMMER TYPE PB PANEL LAB/OFFICE BUILDING

EX. INFLUENT & EFFLUENT FLOW METERS

SHEET NOTES

1. CONTRACTOR SHALL EXAMINE NOT ONLY PLANS AND SPECIFICATIONS FOR ELECTRICAL AND INSTRUMENTATION, BUT ALSO PLANS AND SPECIFICATIONS FOR OTHER RELATED SECTIONS. VISIT THE SITE TO BECOME ACQUAINTED WITH ALL PROJECT CONDITIONS INCLUDING EXISTING CONDITIONS. EXECUTION OF CONTRACT IS EVIDENCE THAT THE CONTRACTOR HAS EXAMINED ALL DRAWINGS AND SPECIFICATIONS AND THAT ALL CONDITIONS OF INSTALLING THE WORK IN THIS SECTION ARE VERIFIED. LATE CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATIONS BEEN MADE, WILL NOT BE RECOGNIZED.
2. THE INFLUENT STRUCTURE IS IS CLASSIFIED AS CLASS1, DIVISION 2, GROUPS C AND D AREA PER NFPA 820. ALL EQUIPMENT INSTALLED WITHIN A 10 FT. ENVELOPE AROUND THE EQUIPMENT AND OPEN CHANNEL SHALL BE UL LISTED FOR THAT AREA. ALL WIRING METHODS SHALL CONFORM TO THE REQUIREMENTS OF NEC ARTICLES 500 AND 501.
3. THE DIVERSION STRUCTURE IS IS CLASSIFIED AS CLASS1, DIVISION 2, GROUPS C AND D AREA PER NFPA 820. ALL EQUIPMENT INSTALLED WITHIN A 10 FT. ENVELOPE AROUND THE EQUIPMENT AND OPEN CHANNEL SHALL BE UL LISTED FOR THAT AREA. ALL WIRING METHODS SHALL CONFORM TO THE REQUIREMENTS OF NEC ARTICLES 500 AND 501.
4. CONDUIT SHALL BE SCHEDULE 40 PVC BELOW GRADE, PVC COATED RIGID AT INFLUENT STRUCTURE, DIVERSION STRUCTURE AND ALUMINUM RIGID IN CONTROL BUILDING ELECTRICAL ROOM.
5. NO CONDUITS SHALL BE INSTALLED ON TOP OF A DECK, ON A WALKWAY OR IN AN AREA THAT MAY POSE A TRIP HAZARD. NO CONDUIT SHALL BE INSTALLED ABOVE A DECK, WALKWAY OR IN AN AREA THAT IS COMMONLY TRAVELED. ALL CONDUITS IN SUCH AREAS SHALL BE COORDINATED WITH THE CONTRACTOR AND INSTALLED BELOW GRADE OR IN THE CONCRETED PAD. CONDUIT INSTALLED IN CONCRETE DECKING OR PAD SHALL BE AVOIDED WHEN POSSIBLE. IF CONDUIT IS TO BE INSTALLED IN STRUCTURAL DECK, PAD, WALL ETC. IT SHALL BE COORDINATED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. IT IS THE CONTRACTORS RESPONSIBILITY TO TO CONFORM TO ANY REQUIREMENTS REQUIRED BY THE STRUCTURAL ENGINEER TO PROTECT THE INTEGRITY OF THE INSTALLATION AT NO COSTS TO THE OWNER.
6. NO CONDUITS SHALL PENETRATE THE TOP OF ANY OUTDOOR PANELS OR ENCLOSURES.
7. ALL CONDUIT SHALL BE INSTALLED OUT OF THE BOUNDARY OF THE 100 YEAR FLOOD PLAIN.

PLAN NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) 2" CONDUIT FROM MCC-1 LOCATED IN THE CONTROLS BUILDING ELECTRICAL ROOM TO NEW DIVERSION STRUCTURE. FURNISH AND INSTALL THREE (3) # 10 CONDUCTORS AND ONE (1) # 10 GROUND TO EACH ACTUATOR. GATE ACTUATOR POWER REQUIREMENTS ARE 460V/3-PHASE. POWER ACTUATORS FROM 3-POLE, 20A BREAKERS 2I AND 2K IN MCC-1. LOCATED IN THE CONTROL BUILDING ELECTRICAL ROOM. ELECTRICAL ROOM IS LOCATED IN THE SOUTH EAST CORNER OF THE CONTROL BUILDING. FURNISH AND INSTALL TWO (2) 460V, 3-POLE, 30A, NON FUSED NEMA 7 STAINLESS STEEL DISCONNECT SWITCHES. MOUNT ON HANDRAIL OF THE DIVERSION STRUCTURE NEAR EACH ACTUATOR ON 1 5/8" STAINLESS STEEL UNISTRUT WITH STAINLESS STEEL MOUNTING HARDWARE. REFER TO PROCESS DRAWING MD01 FOR DIVERSION STRUCTURE LAYOUT.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL DIVERSION GATE CONTROL PANEL (DGCP-1) IN THE LAB/OFFICE BUILDING. COORDINATE EXACT LOCATION WITH OWNER. FURNISH AND INSTALL ONE (1) 3/4" CONDUIT WITH TWO (2) #12 CONDUCTORS AND ONE (1) # 12 GROUND FROM CUTLER HAMMER ELECTRICAL PANEL IN THE LAB OFFICE BUILDING TO DGCP-1. FURNISH AND INSTALL ONE (1) 1-POLE, 20A BREAKER IN CUTLER HAMMER ELECTRIC EXISTING PANEL.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) 1.5" CONDUIT FROM NEW DIVERSION GATE CONTROL PANEL (DGCP-1) LOCATED IN THE LAB/OFFICE BUILDING TO NEW DIVERSION STRUCTURE. FURNISH AND INSTALL EIGHT (8) # 12 CONDUCTORS TO EACH ACTUATOR FOR POSITION INDICATION AND ALARMS.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) 1.5" CONDUIT FROM NEW DIVERSION GATE CONTROL PANEL (DGCP-1) LOCATED IN THE LAB/OFFICE BUILDING TO NEW DIVERSION STRUCTURE. FURNISH AND INSTALL TWO (2) # 16 TSP CABLES TO EACH ACTUATOR FOR POSITION CONTROL AND POSITION FEED BACK.
5. TELEDYNE ISCO LASER FLOW EX FLOW METER WILL BE FURNISHED BY THE SYSTEMS INTEGRATOR AND INSTALLED BY THE CONTRACTOR. LASER FLOW METER INCLUDES MULTIPLE COMPONENTS. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER'S REPRESENTATIVE FOR MOUNTING AND WIRING REQUIREMENTS. FURNISH AND INSTALL ONE (1) 3/4" CONDUIT WITH TWO (2) #12 CONDUCTORS AND ONE (1) # 12 GROUND FROM CUTLER HAMMER ELECTRIC PANEL LOCATED IN THE LAB/OFFICE BUILDING TO AREA VELOCITY FLOW METER I/O ENCLOSURE. FURNISH AND INSTALL ONE (1) 1-POLE 20A BREAKER IN CUTLER HAMMER ELECTRIC PANEL. INSTALL LASER FLOW METER I/O ENCLOSURE ON EXTERIOR WALL OF LAB/OFFICE BUILDING WHERE SHOWN.
6. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS FOR CONNECTION BETWEEN LASER FLOW METER AND I/O ENCLOSURE. LASER FLOW METER SHALL BE MOUNTED IN A C1,D1 AREA.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) 1" CONDUIT WITH TWO (2) #18 TSP CABLES FROM DIVERSION GATE CONTROL PANEL (DGCP-1) LOCATED IN LAB/OFFICE BUILDING TO AREA VELOCITY FLOW METER I/O ENCLOSURE.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) 3/4" CONDUIT WITH TWO (2) # 18 TSP CABLES BETWEEN DIVERSION GATE CONTROL PANEL (DGCP-1) AND THE EXISTING INFLUENT AND EFFLUENT FLOW METERS IN THE LAB OFFICE BUILDING.

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MICHAEL A. MIRANDE II REGISTERED No. 19800084 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature 04/25/2025 Date

TOWN OF FAIRMOUNT GRANT COUNTY, INDIANA

WASTEWATER UTILITY LTCP PHASE III - COLLECTION SYSTEM IMPROVEMENTS

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Designed By:	Drawn By:	Checked By:
SD	SD	TLC
Issue Date: 4/28/25	Project No: S24169	Scale: AS SHOWN

ELECTRICAL PLAN

Drawing No: **E1-0**

Sheet: 55 OF 57

File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\K MECH-ELECT\S24169-FAIRMOUNT-ELECTRICAL DRAWINGS.DWG
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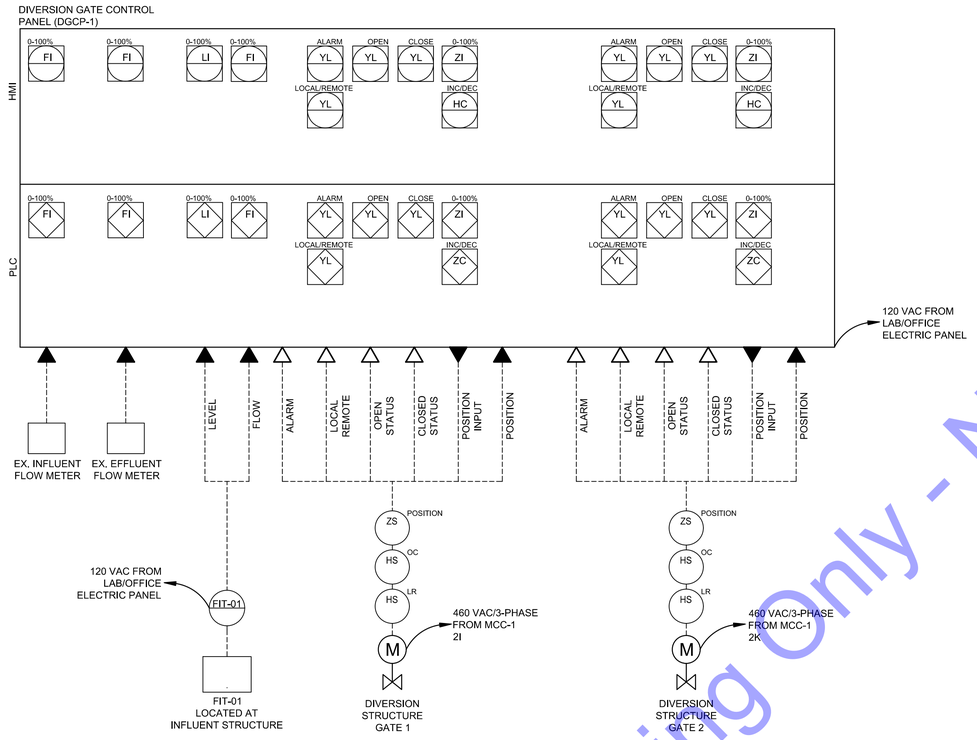

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No. 19800084
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 04/25/2025 Date

TOWN OF FAIRMOUNT
GRANT COUNTY, INDIANA

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Issue Date:	**Project No:**	**Scale:**
4/28/25	S24169	AS SHOWN

PROCESS AND INSTRUMENTATION DRAWING

Drawing No:
E2-0
Sheet: 56 OF 57

File: Z:\SHARED\IN CLIENTS A-L\FAIRMOUNT\D S24169 WW COLLECTION - LTCP PH 3\06 CAD\X MECH-ELECT\S24169-FAIRMOUNT-ELECTRICAL DRAWINGS.DWG
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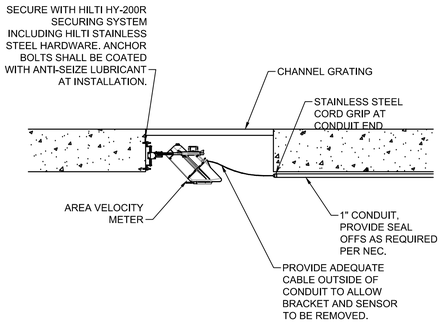
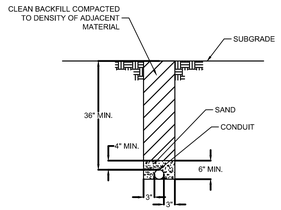


AREA VELOCITY METER MOUNTING DETAIL

NOT TO SCALE



NOTE:

WHERE THERE IS MORE THAN ONE CONDUIT PER TRENCH, CONDUITS SHALL NOT BE PLACED CLOSER THAN 8" CENTER TO CENTER.

DIRECT BURIAL CONDUIT DETAILS IN EARTH

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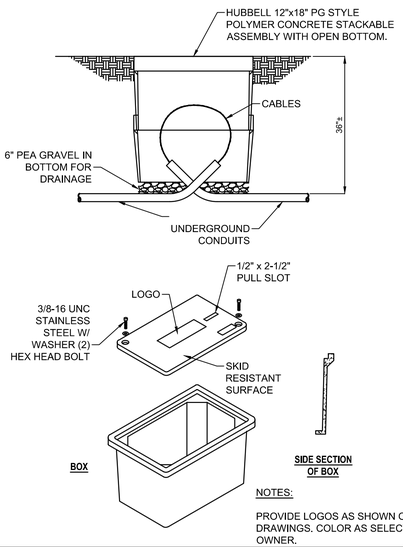
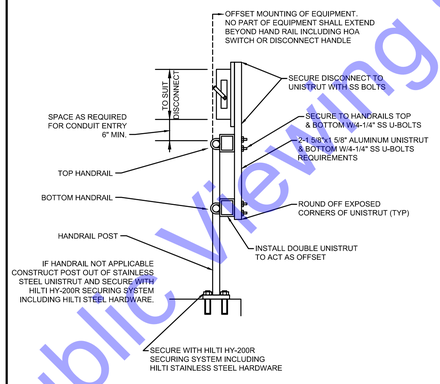


NOTES:

PROVIDE LOGOS AS SHOWN ON THE DRAWINGS. COLOR AS SELECTED BY OWNER.

YARD PULL/JUNCTION BOX DETAIL

NOT TO SCALE



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ELECTRICAL DETAILS

Drawing No: **E3-0**

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