SET NO.

CITY OF RENSSELAER
JASPER COUNTY, INDIANA

I-65 WATER AND SEWER IMPROVEMENTS

FEBRUARY 2025

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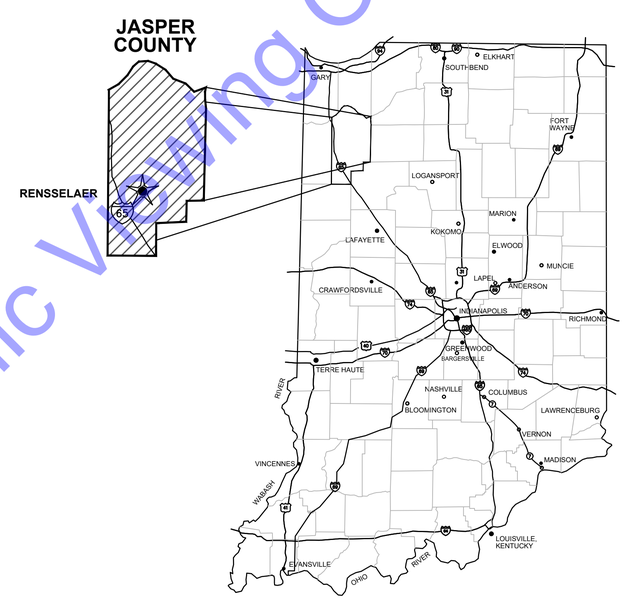

GENERAL LOCATION MAP

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QA/QC BY : RYAN M. LAREAU, P.E. 2-5-25
DATE :

CERTIFIED BY : Andrew C. Cochrane 11-12-24
ANDREW COCHRANE
INDIANA P.E. No. 19900094
DATE :

ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

CONTRACT NO. : J24115

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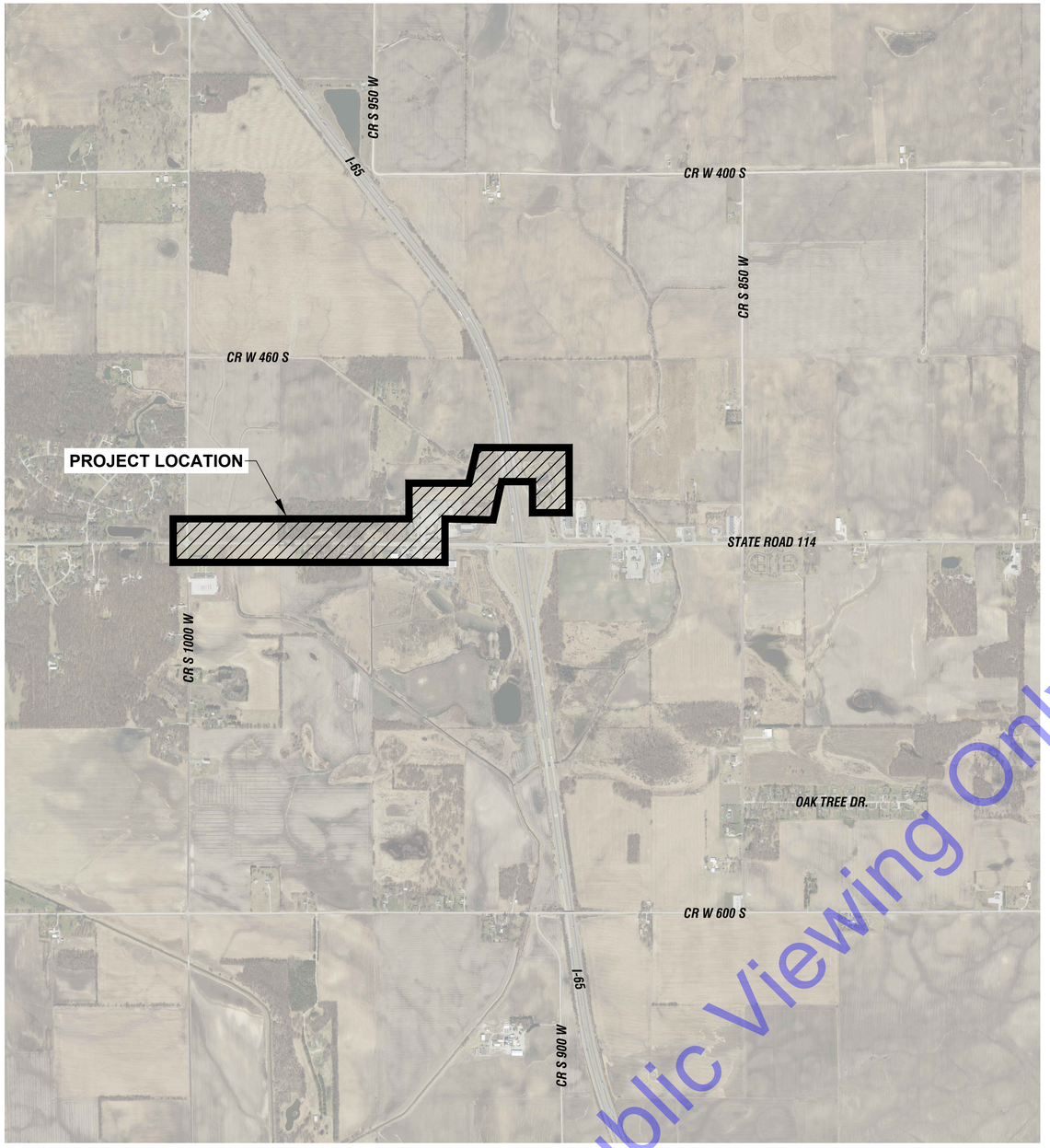

VICINITY MAP

SCALE: 1"=1000'-0"

0 1000' 2000'

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21	C1-03	PLAN AND PROFILE VIEWS - LINE "WM-1"
22	C1-04	PLAN AND PROFILE VIEWS - LINE "WM-1"
23	C1-05	PLAN AND PROFILE VIEWS - LINE "WM-1"
24	C1-06	PLAN AND PROFILE VIEWS - LINE "WM-1"
25	C1-07	PLAN AND PROFILE VIEWS - LINE "WM-1"
26	C1-08	PLAN AND PROFILE VIEWS - LINE "WM-1"
27	C1-09	PLAN AND PROFILE VIEWS - LINE "WM-1"
28	C1-10	PLAN AND PROFILE VIEWS - LINE "WM-1"
29	C1-11	PLAN AND PROFILE VIEWS - LINE "WM-1"
30	C1-12	PLAN AND PROFILE VIEWS - LINE "WM-1"
31	C1-13	PLAN AND PROFILE VIEWS - LINE "WM-1"
32	C1-14	PLAN AND PROFILE VIEWS - LINE "WM-1"
33	C1-15	PLAN AND PROFILE VIEWS - LINE "WM-1"
34	C2-01	PLAN AND PROFILE VIEWS - LINE "FM-1"
35	C2-02	PLAN AND PROFILE VIEWS - LINE "FM-1"
36	C2-03	PLAN AND PROFILE VIEWS - LINE "FM-1"
37	C2-04	PLAN AND PROFILE VIEWS - LINE "FM-1"
38	C2-05	PLAN AND PROFILE VIEWS - LINE "FM-1"
39	C2-06	PLAN AND PROFILE VIEWS - LINE "FM-1"
40	C2-07	PLAN AND PROFILE VIEWS - LINE "FM-1"
41	C2-08	PLAN AND PROFILE VIEWS - LINE "FM-1"
42	C2-09	PLAN AND PROFILE VIEWS - LINE "FM-1"
43	C2-10	PLAN AND PROFILE VIEWS - LINE "FM-1"
44	C2-11	PLAN AND PROFILE VIEWS - LINE "FM-1"
45	C2-12	PLAN AND PROFILE VIEWS - LINE "FM-1"
46	C2-13	PLAN AND PROFILE VIEWS - LINE "FM-1"
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No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

CITY OF RENSSELAER
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VICINITY MAP AND DRAWING SET INDEX

Drawing No:
G2

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File: \\EGNYTEDRIVE\C2MMONWEALTHENGINEERS\SHAREDIN CLIENTS M-Z\RENSSELAERED J24115 I-65 WATER AND SEWER IMPROVEMENTS\06 CADA 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.

HATCHING SYMBOLS

- -CMU WALL (PLAN VIEW)
  -GRANULAR BACKFILL (PROFILE VIEW)
- - DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)
- - GROUT
- - CONCRETE
- - STEEL
- - RIP RAP
- - ABANDONED IN PLACE
- - WETLANDS

DRAWING SET LEGEND

EXOHT — EXOHT	EXISTING OVERHEAD TELEPHONE LINE
EXG — EXG	EXISTING GAS LINE AND VALVE
EXW — EXW	EXISTING WATER LINE AND VALVE
EXF/O — EXF/O	EXISTING FIBER OPTIC LINE
EXOHE — EXOHE	EXISTING OVERHEAD ELECTRIC LINE
EXBE — EXBE	EXISTING BURIED ELECTRIC
NPW — NPW — NPW	EXISTING NON-POTABLE WATER LINE
POT — POT — POT	EXISTING POTABLE WATER LINE
EXBT	EXISTING BURIED TELEPHONE LINE
X — X — X — 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 — W — W	**NEW WATER LINE**
GAS — GAS	**NEW GAS LINE**
FM	**NEW FORCE MAIN LINE**
785	**PROPOSED MAJOR CONTOUR LINE**
784	**PROPOSED MINOR CONTOUR LINE**

AC UNIT	TELEPHONE MANHOLE
BOLLARD	TELEPHONE LINE MARKER
BOULDER / LARGE ROCK	TRAFFIC MANHOLE
CL CENTER LINE MONUMENT	WATER LINE MARKER
CONTROL POINT / BENCH MARK	WATER METER
DRILL HOLE	VALVE
MB MAIL BOX	IRRIGATION CONTROL VALVE
FLAG POLE	FIRE HYDRANT
POST	FLUSH HYDRANT
STUMP	YARD HYDRANT
BUSH / HEDGE	WALL SPIGOT
DECIDUOUS TREE	EXISTING PIPE PLUG
CONIFEROUS TREE	STORM CATCH BASIN (SQUARE)
SIGN	STORM CATCH BASIN (ROUND)
UTILITY LOCATE FLAG	STORM CURB INLET
GAS LINE MARKER	STORM MANHOLE
GV GAS VALVE	SANITARY MANHOLE
GAS METER	SV SANITARY VALVE
GUY POLE	CLEANOUT
POWER POLE	VENT
LIGHT POLE	**NEW VALVE**
GUY WIRE	**NEW FIRE HYDRANT**
EM ELECTRIC METER	**NEW FLUSH HYDRANT**
ELECTRIC PANEL	**NEW WET SADDLE AND VALVE BODY**
ET ELECTRIC TRANSFORMER	**NEW PLUG**
HAND HOLE BOX	**NEW LINE STOP**
FIBER OPTIC MARKER	**NEW CUT AND CAP**
TP TEL/TV PEDESTAL	**NEW SANITARY MH / AIR RELEASE VALVE**
	NEW FLUSHING CONNECTION VALVE

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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

No.	Submittal / Revision	By	Date

Designed By:	Drawn By:	Checked By:
ACC	JML	RML
Issue Date: 2-10-25	Project No: J24115	Scale: AS SHOWN

CITY OF RENSSELAER
JASPER COUNTY, INDIANA

I-65 WATER AND SEWER IMPROVEMENTS

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GENERAL ABBREVIATIONS, LEGENDS, SYMBOLS, AND NOTES

Drawing No: **G3**

Sheet: 03 OF 54

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PLAN VIEW

SCALE: 1"=500'-0"

0 500' 1,000'

CONTROL POINT INFORMATION

IDENTIFIER	NORTHING	EASTING	DESCRIPTION
CP-100	2073446.72	2910324.34	CAPPED REBAR
CP-101	2073438.87	2911203.19	CAPPED REBAR
CP-102	2073487.04	2912109.32	CAPPED REBAR
CP-103	2073420.53	2912904.18	CAPPED REBAR
CP-104	2073602.77	2913662.88	CAPPED REBAR
CP-105	2073580.78	2914084.91	CAPPED REBAR
CP-106	2074559.85	2915122.16	CAPPED REBAR
CP-107	2074227.85	2915248.24	CAPPED REBAR
CP-200	2073430.74	2911630.37	TEMP
CP-201	2073422.10	2912300.70	TEMP
CP-202	2073530.80	2913270.67	TEMP
CP-203	2074073.43	2914247.31	TEMP
CP-205	2074396.66	2915286.56	TEMP
CP-206	2074667.52	2915000.12	TEMP

TEMPORARY BENCHMARK INFORMATION

IDENTIFIER	ELEVATION	DESCRIPTION
TBM-1572	663.76	TBM /NE CORNER CONCRETE BASE STONE SIGN
TBM-2689	667.08	TBM /SE CORNER CONCRETE SIGN BASE
TBM-4164	679.84	TBM /BOAT SPIKE WEST SIDE PP 1 FT ABOVE GRADE

Project coordinates are based on the following:
HORIZONTAL-US State plane coordinates: NAD83 *(North American Datum)* Indiana West Zone (1302)
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 54

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OVERALL LOCATION MAP

SCALE: 1"=200'-0"

0 200' 400'

GENERAL NOTES:

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

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DRAWING INDEX MAP

Drawing No:
G5
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SECTION A: BASIC PLAN ELEMENTS

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 CITY OF RENSSELAER I-65 WATER AND SEWER IMPROVEMENTS CONSTRUCTION.

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. A USGS SITE MAP ILLUSTRATING THE APPROXIMATE EXTENT OF THE PROJECT IS ALSO SHOWN IN THE PLANS. ALL CONSTRUCTION WILL TAKE PLACE IN EXISTING AND NEW RIGHTS-OF-WAY OR REGULATED DRAIN EASEMENTS.

A3 NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT:

THE CITY OF RENSSELAER IS IN NEED OF UPDATES TO THEIR SEWER AND WATER SYSTEMS. THIS PROJECT WAS PROPOSED TO PROVIDE NEW INFRASTRUCTURE EXTENSIONS. IT WILL CROSS I-65 AND RUN ALONG STATE ROAD 114.

THE PROPOSED PROJECT IS SHOWN IN THE PLAN SHEETS. THE GENERAL LOCATION OF THE PROJECT IS SHOWN ON A USGS TOPOGRAPHIC MAP IN THE PLANS.

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

THIS APPROXIMATE LATITUDE AND LONGITUDE FOR THE PROJECT SITE IS 40.940833°, -87.238278°. THE PROJECT IS LINEAR, AND THIS MARKS THE BEGINNING POINT OF THE PROJECT ON THE WEST SIDE.

A5 LEGAL DESCRIPTION OF THE PROJECT SITE:

THE CITY OF RENSSELAER IS IN NEWTON TOWNSHIP, JASPER COUNTY, INDIANA. THE PROJECT IS LOCATED IN SECTION 28 OF TOWNSHIP 29 N RANGE 7 W AND SECTION 21 OF TOWNSHIP 29 N RANGE 7 W.

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. ALL CONSTRUCTION WILL TAKE PLACE IN EXISTING RIGHT OF WAYS, UTILITY EASEMENTS, OR LAND OWNED BY THE CITY. A USGS MAP ILLUSTRATING THE APPROXIMATE EXTENT OF THE PROJECT IS SHOWN IN THE PLANS.

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 #1**. WORK WITHIN THE FLOODWAY AND FLOOD FRINGES IS NOT ANTICIPATED.

A8 LAND USE OF ALL ADJACENT PROPERTIES:

LAND USE AT THE PROJECT SITE AND THE SURROUNDING AREAS IS SHOWN IN **EXHIBIT #2.** LAND USE IN THE PROJECT SITE IS PRIMARILY DEVELOPED LOW INTENSITY AND DEVELOPED MEDIUM INTENSITY. LAND USE ADJACENT TO THE PROJECT SITE INCLUDES DECIDUOUS FOREST AND CULTIVATED CROPS.

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

THE PROJECT AREA IS LOCATED WITHIN THE HEADWATERS CURTIS CREEK (071200020402) WATERSHED. YEOMAN DITCH IS LOCATED NEAR THE PROJECT SITE AND IS INCLUDED IN THE APPROVED TMDL FOR *E. COLI*.

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

THE RECEIVING WATER IN THE AREA ADJACENT TO THE PROJECT IS A TRIBUTARY OF YEOMAN DITCH, WHICH FEEDS INTO CURTIS CREEK.

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

YEOMAN DITCH IS LISTED ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS FOR CHLORINE AND *E. COLI*.

A12 SOILS MAP OF THE PREDOMINATE SOIL TYPES:

THE SOILS MAP FOR THIS PROJECT IS SHOWN IN EXHIBIT #3. THE SOILS IN THE PROJECT AREA CONSIST MAINLY OF "MAB" "MARKTON-AUBBEENAUBBEE COMPLEX, 0-1 SLOPES", "ST" "STROLE CLAY LOAM", "WSB2" "WAWASEE LOAM, 0-1 SLOPES", "RS" "RENSSELAER LOAM, 0-1 SLOPES", AND "DG" "DARROCH, TILL SUBSTITUTION-ODELL COMPLEX".

CONSTRUCTION PROJECTS ARE NOT EXPECTED TO HAVE ANY DETRIMENTAL, LONG-TERM IMPACTS ON THE SOILS. 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 SOILS 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 SOILS FOR SITE ACCESS PURPOSES AND TO REDUCE DOWNTIME. THE DEPTH TO WATER TABLE IN THE PROJECT AREA VARIES FROM 0 CM TO GREATER THAN 200 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 NEAR THE PROJECT AREA HAVE BEEN IDENTIFIED AND ARE SHOWN IN **EXHIBIT #4** AND ARE SHOWN IN THE PLANS. THIS PROJECT WILL AVOID CROSSING THE WETLAND WHERE POSSIBLE. THE MAJOR WATERWAY IN THE PROJECT AREA IS YEOMAN DITCH, WHICH FEEDS INTO CURTIS CREEK. THERE IS A WETLAND TO THE NORTH OF THE PROPOSED FORCE MAIN AND WATER LINE. A NEW PERMANENT UTILITY EASEMENT WILL BE PUT IN PLACE ALONG THIS REGION OF THE PROJECT AREA. AN ADDITIONAL WETLAND IS ADJACENT TO THE PROJECT SITE TO THE SOUTH, BUT NO CROSSING WILL BE NECESSARY; THEREFORE, NO IMPACT IS ANTICIPATED.

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

DUE TO THE LOCATION OF WORK IN THE FLOOD FRINGE, NO DNR CONSTRUCTION IN A FLOODWAY PERMIT IS REQUIRED. A 401 WATER QUALITY CERTIFICATION AND 404 FROM THE USACE IS NOT DETERMINED TO BE NECESSARY FOR THIS PROJECT.

IF ANY OTHER WATER QUALITY PERMITS ARE DETERMINED TO BE REQUIRED BY THE PROJECT, EACH WILL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.

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

LAND USE AT THE PROJECT SITE AND THE SURROUNDING AREAS IS SHOWN IN **EXHIBIT #2**. LAND USE IN THE PROJECT SITE IS PRIMARILY DEVELOPED LOW INTENSITY AND CULTIVATED CROPS. LAND USE ADJACENT TO THE PROJECT AREAS INCLUDES CULTIVATED CROPS, DEVELOPED MEDIUM AND HIGH INTENSITY, AND DECIDUOUS FOREST. THE PROJECT INVOLVES THE INSTALLATION OF FORCE MAIN, LOW PRESSURE SEWER SERVICE LINES, AND THE EXTENSION OF THE GRAVITY SEWER CONNECTING THE FORCE MAIN TO THE EXISTING COLLECTION SYSTEM. WORK WILL BE WITHIN ROAD RIGHTS-OF-WAY, UTILITY RIGHTS-OF-WAY, REGULATED DRAIN EASEMENT AND CITY OWNED PROPERTY. PROPER TECHNIQUES FOR EROSION CONTROL AND SURFACE RESTORATION, INCLUDING STABILIZATION WITH APPROPRIATE VEGETATIVE COVER, WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN DS-09 "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:

DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLAN SHEETS (EC SERIES) 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 THE PLANS. 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 PLANS. 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:

NONE ARE WITHIN PROJECT LIMITS.

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

THERE ARE NO ABANDONED WELLS, SINKHOLES, OR KARST FEATURES LOCATED WITHIN THE PROJECT AREA.

A22 SIZE OF THE PROJECT AREA EXPRESSED IN ACRES:

THE TOTAL PROJECT AREA IS APPROXIMATELY 26.09 ACRES.

A23 TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES:

THE TOTAL EXPECTED LAND DISTURBANCE FOR THE PROJECT IS APPROXIMATELY 6.50 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. ALL DISTURBANCE WILL BE WITHIN RIGHT-OF-WAY EASEMENTS.

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

THE EXISTING 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 ANTICIPATED FOR THIS PROJECT.

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

STOCKPILES LEFT INACTIVE FOR SEVEN (7) DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY SEED AND SURROUNDED BY SILT FENCE OR OTHER PERIMETER CONTROLS. ALL STOCKPILES AND BORROW AREAS, IF REQUIRED FOR THE PROJECT, 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:

CONCRETE WASHOUT AREAS AND STOCKPILES ARE EXPECTED TO BE PART OF THE PROJECT. THEY ARE SHOWN IN THE PLANS.

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 ANTICIPATED.

SECTION B: STORMWATER POLLUTION PREVENTION - CONSTRUCTION

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 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 SEDIMENT 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-09, "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:

THIS PROJECT HAS A DESIGNATED STABLE CONSTRUCTION ENTRANCE. 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-09, "TEMPORARY EROSION CONTROL" FOR STABLE CONSTRUCTION ENTRANCE REQUIREMENTS (UNDER SEPARATE ATTACHMENT).

B3 SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION:

TEMPORARY AND PERMANENT SEED SURFACE STABILIZATION WILL BE UTILIZED WHERE NEEDED. SEE DS-09, "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, 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-09, "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 FORCE MAIN AND WATER MAIN INSTALLATION. THE PLANS SHOW ADDITIONAL EROSION CONTROL MEASURES PROPOSED FOR THIS PROJECT. REFER TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR MORE DETAIL.

B6 RUNOFF CONTROL MEASURES:

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

B7 STORMWATER OUTLET PROTECTION SPECIFICATIONS:

STORMWATER OUTLETS WILL BE PROVIDED WITH A STRAW DAM, SILT FENCES, EROSION CONTROL BLANKETS, AND TEMPORARY AND PERMANENT SEEDING AS APPLICABLE.

B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

GRADE STABILIZATION WILL NOT BE REQUIRED AS NEEDED DURING CONSTRUCTION. GRADE STABILIZATION REQUIREMENTS ARE ESTABLISHED IN DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) IF DEEMED NECESSARY.

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.

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PROFESSIONAL ENGINEER

Andrew C. Cochrane
Signature
11-12-24
Date

CITY OF RENSSELAER
JASPER COUNTY, INDIANA
I-65 WATER AND SEWER IMPROVEMENTS

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Designed By:	Drawn By:	Checked By:
ACC	JML	RML
Issue Date: 2-10-25	Project No: J24115	Scale: AS SHOWN

STORMWATER POLLUTION PREVENTION PLAN

Drawing No:
EC01
Sheet: 06 OF 54

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SECTION B: STORMWATER POLLUTION PREVENTION - CONSTRUCTION

B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS:

IF DEWATERING BECOMES NECESSARY ON SITE, THE FOLLOWING METHODS WILL BE USED:

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 SEDIMENT 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:

WORK WITHIN WATERBODIES INCLUDES THE INSTALLATION OF A NEW STORM PIPE THAT WILL DISCHARGE INTO THE LITTLE CICERO CREEK THAT RUNS PERPENDICULAR TO 266TH STREET. THE AREA OF DISTURBANCE WILL BE MINIMIZED TO THE EXTENT PRACTICABLE AND EROSION CONTROL MEASURES WILL BE IN ACCORDANCE WITH IDEM, AND ACOE PERMIT REQUIREMENTS, AS DEEMED NECESSARY.

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-09, "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 MADISON 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-09, "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. OBTAIN THE NECESSARY PROJECT PERMITS, INCLUDING PERMITS FROM IDEM.
2. NOTIFY THE APPROPRIATE REGULATORY AGENCIES AT LEAST 48 HOURS PRIOR TO THE START OF LAND-DISTURBING ACTIVITY.
3. ESTABLISH THE CONSTRUCTION ENTRANCE IN THE LOCATION(S) INDICATED IN THE E&SC DRAWINGS.
4. INSTALL PERIMETER CONTROL MEASURES (SILT FENCE, ETC.). CLEAR ONLY WHAT IS REQUIRED FOR SUFFICIENT ACCESS AND INSTALLATION OF THE PERIMETER MEASURES.
5. PROCEED WITH CLEARING, GRADING, AND OTHER CONSTRUCTION ACTIVITIES. REGULARLY INSPECT AND MAINTAIN ALL E&SC MEASURES THROUGHOUT ACTIVE CONSTRUCTION.
6. ESTABLISH TEMPORARY SEEDING AS NEEDED THROUGHOUT THE PROJECT PER SPECIFICATIONS.
7. ESTABLISH PERMANENT SEEDING.
8. TEMPORARY E&SC MEASURES ARE ONLY TO BE REMOVED ONCE ALL LAND-DISTURBING ACTIVITY IS COMPLETE, AND THE SITE HAS 80% PERMANENT VEGETATIVE COVERAGE.
9. NOTIFY THE APPROPRIATE REGULATORY AGENCIES OF PROJECT COMPLETION. SUBMIT THE NOTICE OF TERMINATION TO CLOSE OUT THE PERMIT.

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

ALL PROPOSED IMPROVEMENTS ARE TAKING PLACE WITHIN RIGHTS-OF-WAY, UTILITY EASEMENTS, DRAINAGE EASEMENTS, OR LAND OWNED BY THE CITY. 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-09, "TEMPORARY EROSION CONTROL" (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 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:

JASPER COUNTY SOIL AND WATER CONSERVATION DISTRICT
211 E DREXEL PKWY
RENSSELAER, IN 47978
PHONE: (219) 866-8554

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
3734 MOUNDS ROAD
ANDERSON, IN 46017
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 ANTICIPATED AS NECESSARY FOR THIS PROJECT AND ARE SHOWN ON THE EROSION CONTROL SHEET SET (EC).

SECTION C: STORMWATER POLLUTION PREVENTION - POST CONSTRUCTION

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

THE FINAL LAND USE IS NOT PROPOSED TO CHANGE FROM THE EXISTING. POTENTIAL POLLUTANTS FROM THIS PROJECT AFTER CONSTRUCTION IS COMPLETED INCLUDE SEDIMENT, HYDROCARBONS, AND LITTER.

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 AREAS. SEDIMENT POLLUTION MAY ALSO BE CAUSED BY ON-SITE STORAGE OF EXCAVATED MATERIALS, BACKFILL MATERIALS, AND CONSTRUCTION SPOIL AREAS. HYDROCARBON POLLUTION MAY OCCUR DUE TO LEAKAGE AND SPILLS FROM ITEMS SUCH AS GASOLINE, OIL, GREASE, VEHICLE BRAKE AND TRANSMISSION FLUIDS, ANTIFREEZE, AND COOLANTS. LITTER MAY OCCUR IN PROJECT AREAS DUE TO HUMAN ACTIVITIES AND INCLUDES PLASTIC BAGS, BOTTLES, ALUMINUM CANS, AND OTHER GENERAL GARBAGE.

C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

POST-CONSTRUCTION MEASURES INCLUDE THE PROPOSED PERMANENT SEEDING. ALL VEGETATED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE REQUIRED TO BE RESTORED. REQUIREMENTS FOR PERMANENT SEEDING ARE REFERENCED IN WM-24 "SEEDING AND SODDING" SPECIFICATION.

C3 PLAN DETAILS FOR EACH STORMWATER QUALITY MEASURE:

DETAILS FOR POST-CONSTRUCTION MEASURES ARE SHOWN IN THE PLANS. TEMPORARY EROSION CONTROL MEASURES WILL NOT BE REMOVED UNTIL THE PERMANENT SEEDING HAS BEEN ESTABLISHED. REFER TO DS-09 "TEMPORARY EROSION AND SEDIMENT CONTROL" AND WM-24 "SEEDING AND SODDING".

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.
2. REMOVAL AND CLEANUP OF ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE, WATTLES, AND EROSION CONTROL BLANKET.
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.
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:

VEGETATED AREAS WITHIN THE PROJECT BOUNDARIES MUST BE MAINTAINED ON A REGULAR BASIS DURING THE ACTIVE GROWING SEASON. MAINTENANCE ACTIVITIES WILL INCLUDE INSPECTION FOR 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".

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

THE CITY OF RENSSELAER WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF POST-CONSTRUCTION STORMWATER MEASURES AFTER THE NOTICE OF TERMINATION (NOT) HAS BEEN RECEIVED BY THE IDEM.

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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

CITY OF RENSSELAER
JASPER COUNTY, INDIANA
I-65 WATER AND SEWER IMPROVEMENTS

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STORMWATER POLLUTION PREVENTION PLAN

Drawing No:
EC02
Sheet: 07 OF 54

File: \\EQNYTEDRIVE\COMMONWEALTHENGINEERS\SHAREDIN CLIENTS M-Z\RENSSELAER\D J24115 I-65 WATER AND SEWER IMPROVEMENTS\06 CAD\A CURRENT FILES\1 DRAWINGS\03-EROSION CONTROL DRAWINGS.DWG
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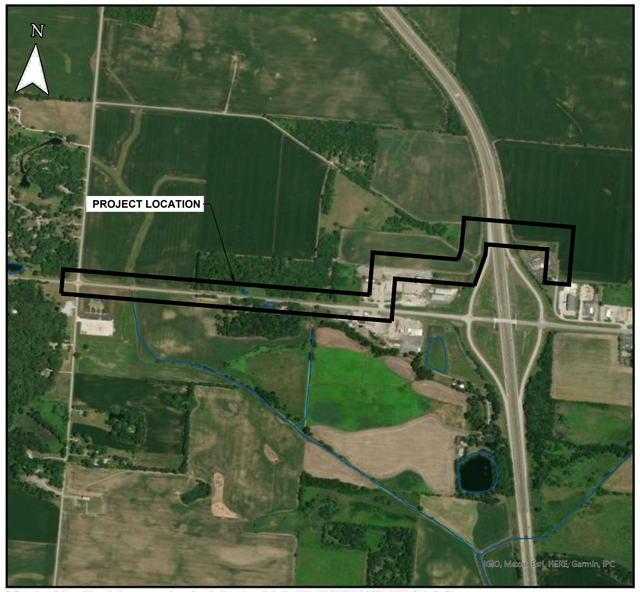
FEMA's National Flood Hazard Layer (NFHL)



Legend

- Water Lines
- Cross-Sections
- Base Flood Elevations
- Transect Baselines
- River Mile Markers

Flood Hazard Boundaries

Line Type

- Limit Lines
- SFHA / Flood Zone Boundary
- Floowage Easement Boundary

Flood Hazard Zones

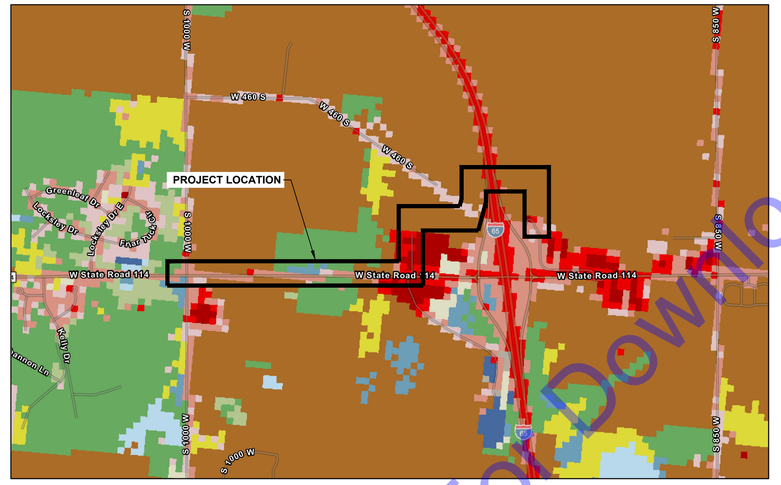
Zone Type

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee

Information via: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd&extent

FLOOD PLAIN MAP

Land Use Map



January 16, 2025

NLCD Land Cover 2021

- Open Water
- Developed, Open Space
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Mixed Forest
- Herbaceous
- Hay/Pasture
- Cultivated Crops
- Woody Wetlands

1:18,056

0 0.1 0.2 0.4 mi

0 0.17 0.35 0.7 km

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap

Indiana Viewer

LAND USE MAP

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

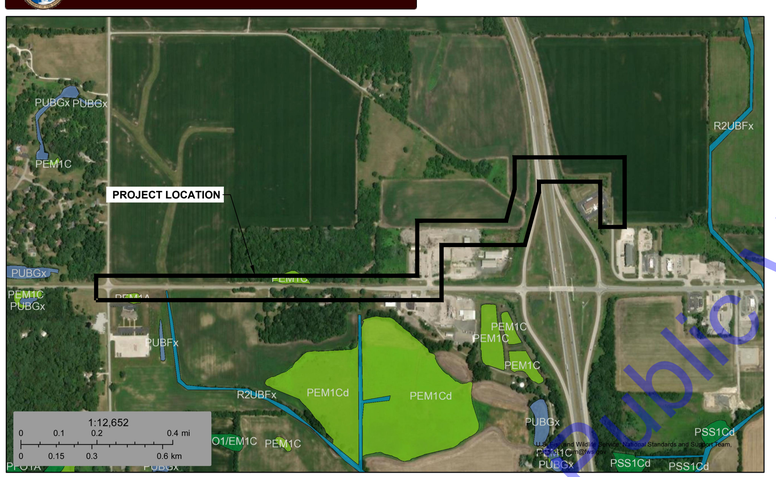
Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands



January 22, 2025

Wetlands

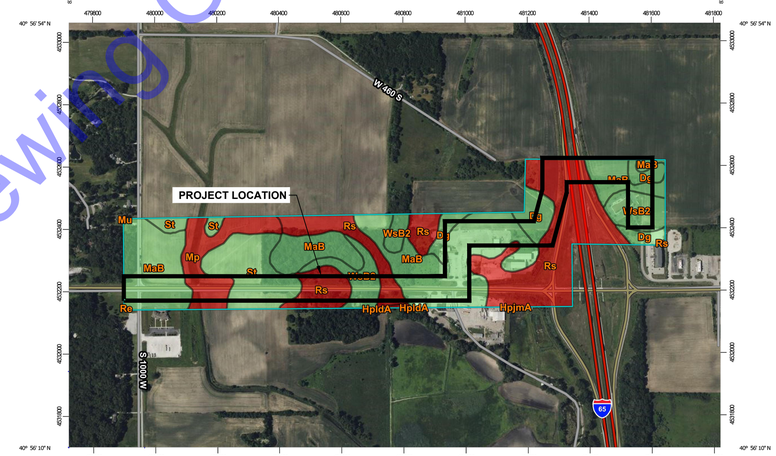
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

FLOOD PLAIN MAP

Hydric Rating by Map Unit—Jasper County, Indiana



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Meters: 0 100 200 400 600

Feet: 0 400 900 1800 2700

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/16/2025
Page 1 of 5

WETLANDS MAP

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Dg	Darroch, till substratum-Odell complex	6	8.7	6.5%
HpjmA	Houghton muck, disintegration moraine, 0 to 2 percent slopes	100	0.0	0.0%
HpldA	Houghton muck, drained, disintegration moraine, 0 to 1 percent slopes	100	0.2	0.2%
MaB	Markton-Aubbeenaubbee complex, 1 to 3 percent slopes	6	48.1	35.9%
Mp	Montgomery silty clay loam	100	9.8	7.3%
Mu	Morocco loamy sand, 0 to 2 percent slopes	7	0.0	0.0%
Re	Rensselaer loam, 0 to 1 percent slopes	88	0.0	0.0%
Rs	Rensselaer fine sandy loam, till substratum	100	40.7	30.4%
St	Strole clay loam	6	14.5	10.8%
WsB2	Wawasee loam, 2 to 6 percent slopes, eroded	9	11.9	8.9%
Totals for Area of Interest			**134.0**	**100.0%**

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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

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JASPER COUNTY, INDIANA
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STORMWATER POLLUTION PREVENTION PLAN

Drawing No: **EC03**

Sheet: 08 OF 54

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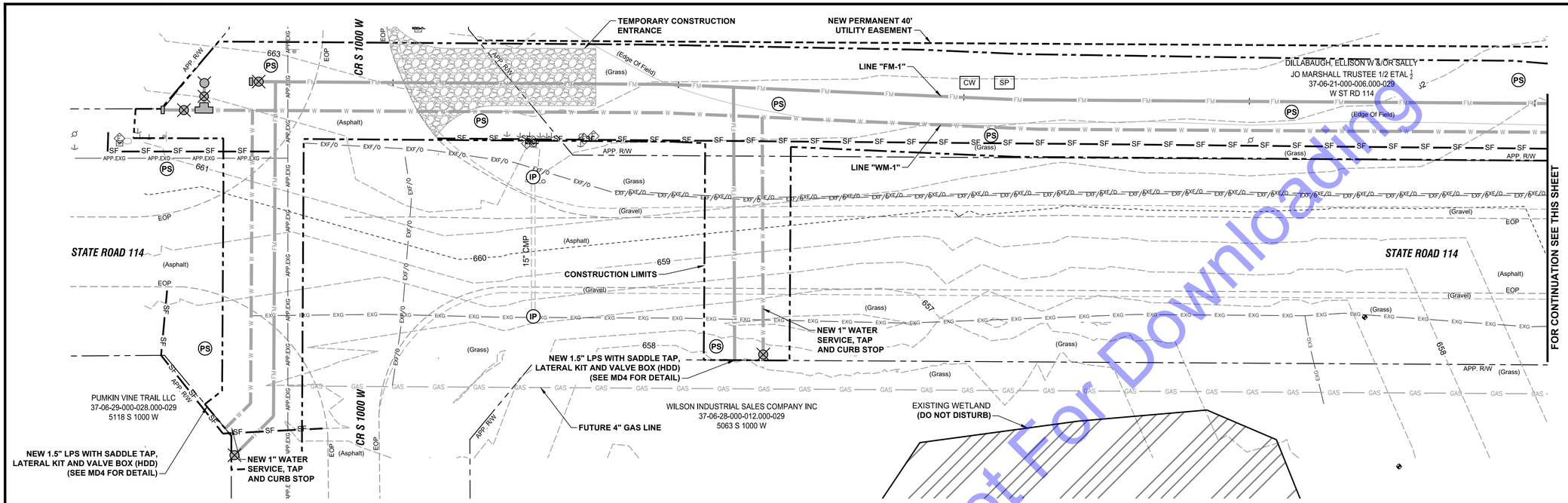

PLAN VIEW

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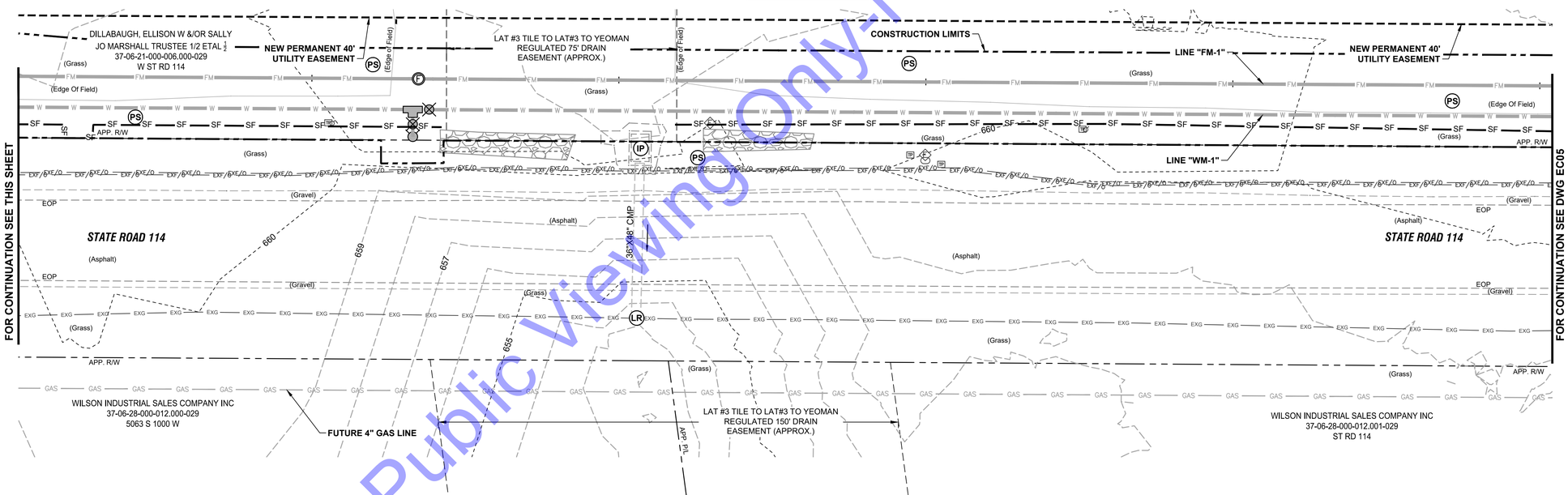

PLAN VIEW

SCALE: 1"=20'-0"

EROSION CONTROL LEGEND:

PS	PERMANENT SEEDING
SF	SILT FENCE
CW	CONCRETE WASHOUT
IP	INLET PROTECTION
SP	STOCKPILE
LR	LOG ROLL

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 STORMWATER CONSTRUCTION PERMIT. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE GENERAL STORMWATER CONSTRUCTION PERMIT, INCLUDING PROVIDING REQUIRED NOTIFICATIONS TO THE REQUIRED AGENCIES.
2. SEE DRAWINGS EC12 & EC13 FOR EROSION CONTROL DETAILS.

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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

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EROSION AND SEDIMENTATION CONTROL PLAN VIEWS

Drawing No: **EC04**

Sheet: 09 OF 54

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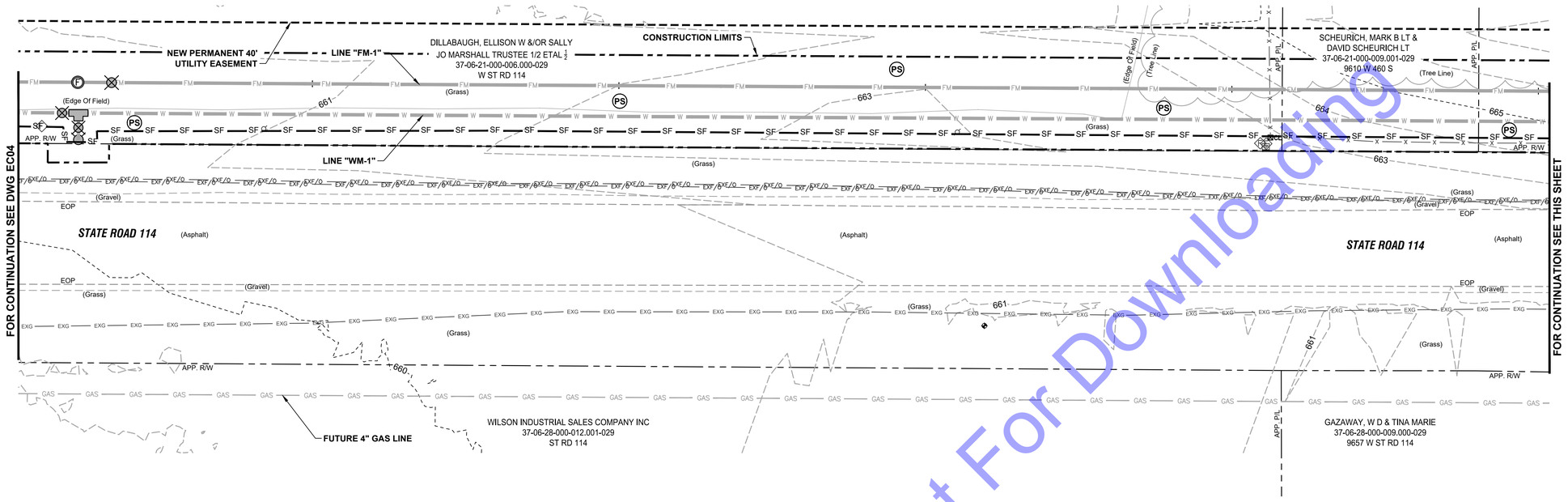

PLAN VIEW

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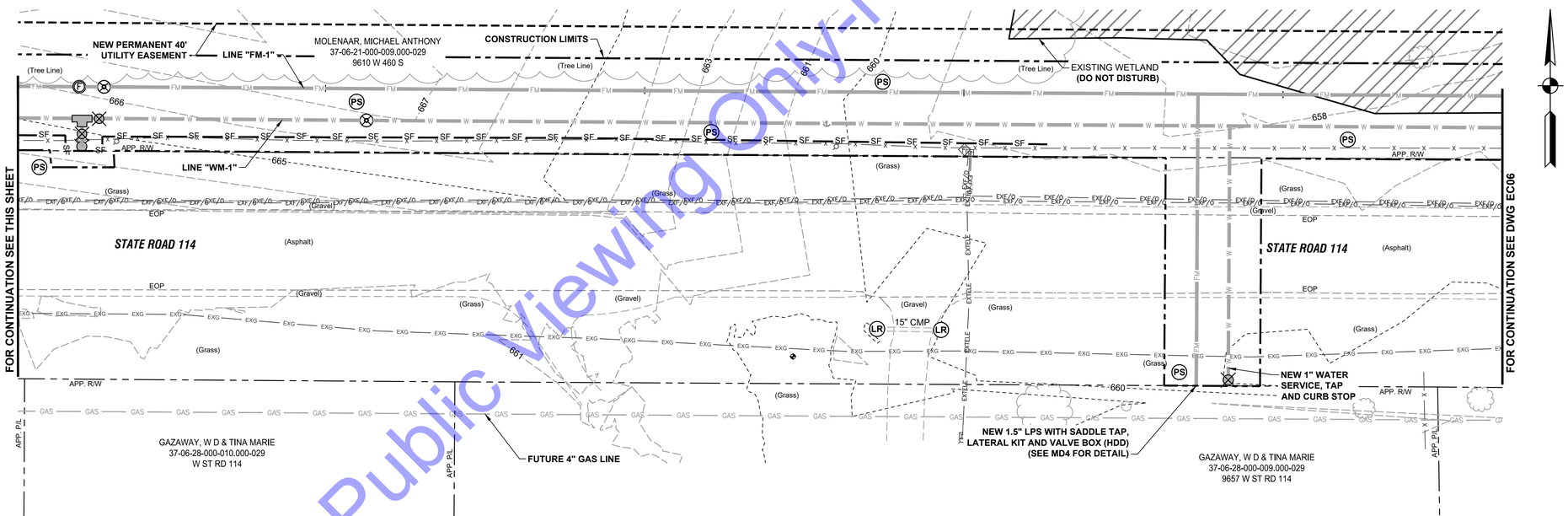

PLAN VIEW

SCALE: 1"=20'-0"

EROSION CONTROL LEGEND:

PS	PERMANENT SEEDING	LR	LOG ROLL
SF	SILT FENCE		
CW	CONCRETE WASHOUT		
IP	INLET PROTECTION		
SP	STOCKPILE		

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 STORMWATER CONSTRUCTION PERMIT. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE GENERAL STORMWATER CONSTRUCTION PERMIT, INCLUDING PROVIDING REQUIRED NOTIFICATIONS TO THE REQUIRED AGENCIES.
2. SEE DRAWINGS EC12 & EC13 FOR EROSION CONTROL DETAILS.

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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

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EROSION AND SEDIMENTATION CONTROL PLAN VIEWS

Drawing No: **EC05**

Sheet: 10 OF 54

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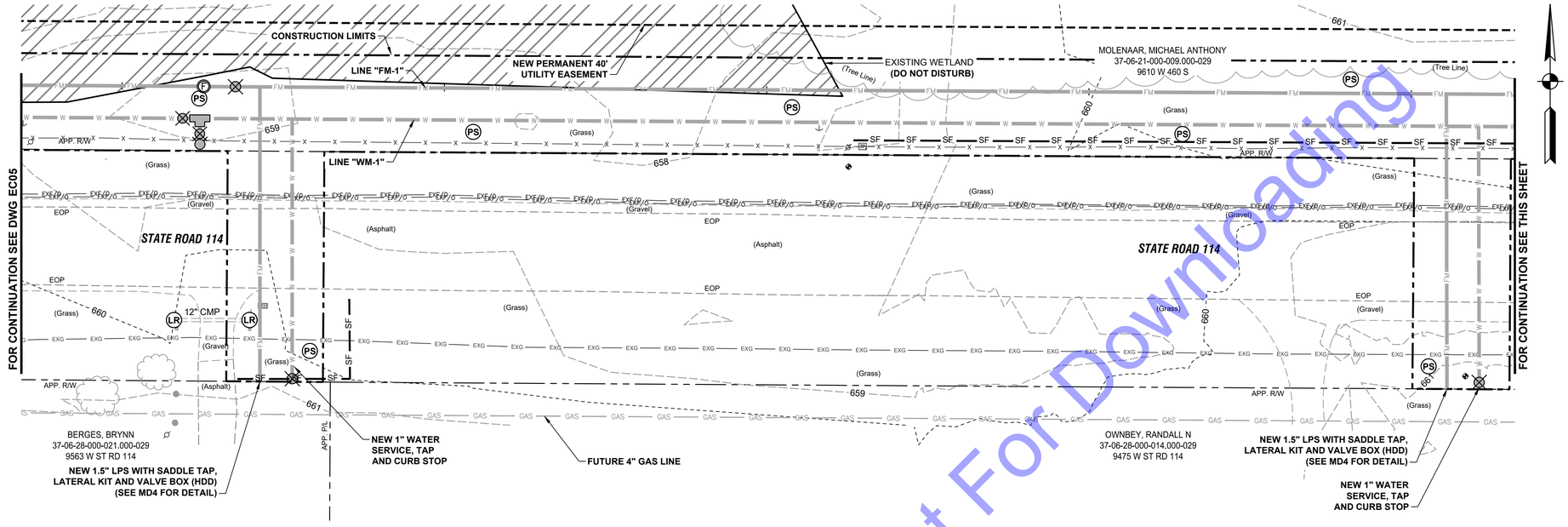

PLAN VIEW

SCALE: 1"=20'-0"

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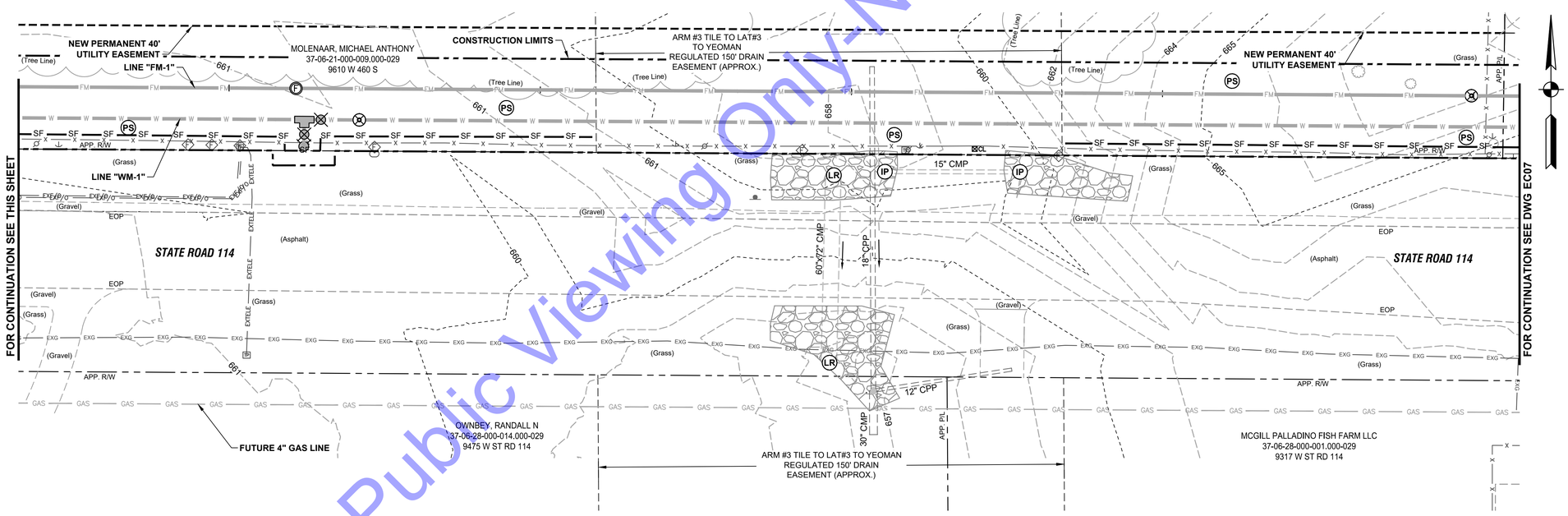

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

EROSION CONTROL LEGEND:

PS	PERMANENT SEEDING	LR	LOG ROLL
SF	SILT FENCE		
CW	CONCRETE WASHOUT		
IP	INLET PROTECTION		
SP	STOCKPILE		

GENERAL NOTES:

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2. SEE DRAWINGS EC12 & EC13 FOR EROSION CONTROL DETAILS.

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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature 11-12-24 Date

CITY OF RENSSELAER
JASPER COUNTY, INDIANA
I-65 WATER AND SEWER IMPROVEMENTS

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Issue Date: 2-10-25	Project No: J24115	Scale: AS SHOWN

EROSION AND SEDIMENTATION CONTROL PLAN VIEWS

Drawing No: **EC06**

Sheet: 11 OF 54

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHAREDIN CLIENTS M-Z\RENSSELAER\D_J24115 I-65 WATER AND SEWER IMPROVEMENTS\06 CADD\ CURRENT FILES\1 DRAWINGS\03-EROSION CONTROL DRAWINGS.DWG
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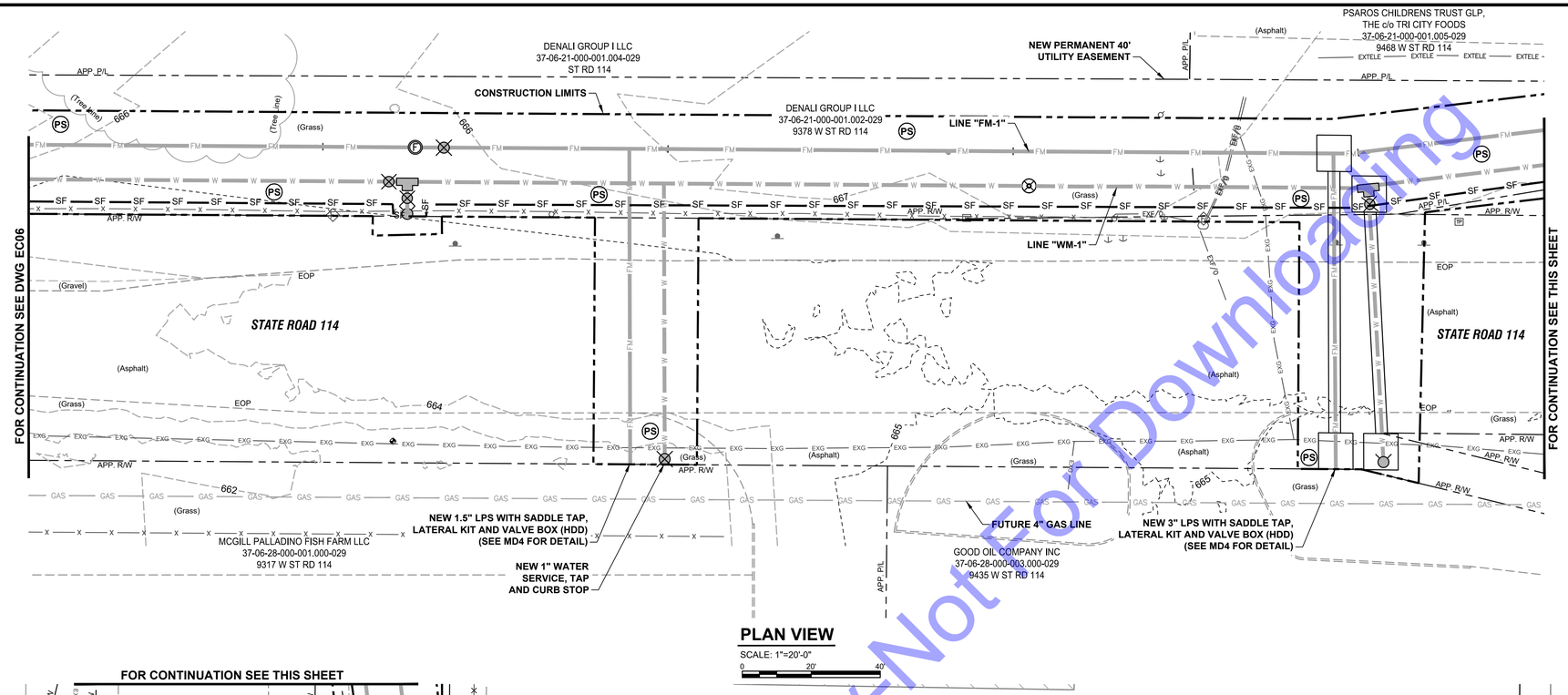
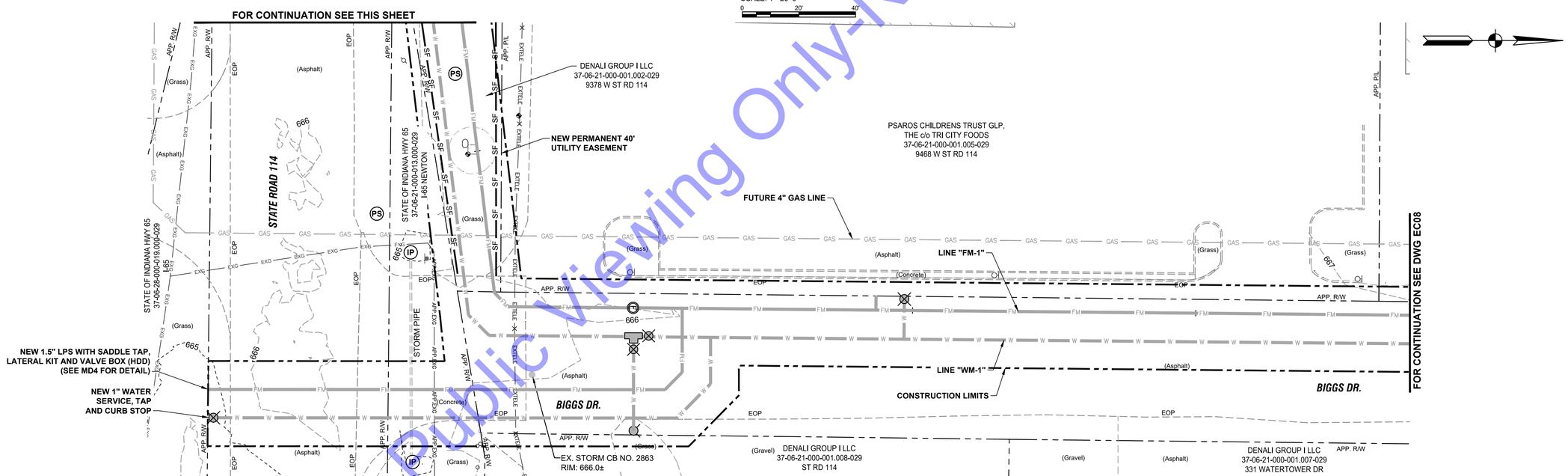


PLAN VIEW

SCALE: 1"=20'-0"



PLAN VIEW

SCALE: 1"=20'-0"

EROSION CONTROL LEGEND:

PS	PERMANENT SEEDING	LR	LOG ROLL
SF	SILT FENCE		
CW	CONCRETE WASHOUT		
IP	INLET PROTECTION		
SP	STOCKPILE		

GENERAL NOTES:

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Signature: Andrew C. Cochrane — Date: 11-12-24

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EROSION AND SEDIMENTATION CONTROL PLAN VIEWS

Drawing No: **EC07**

Sheet: 12 OF 54

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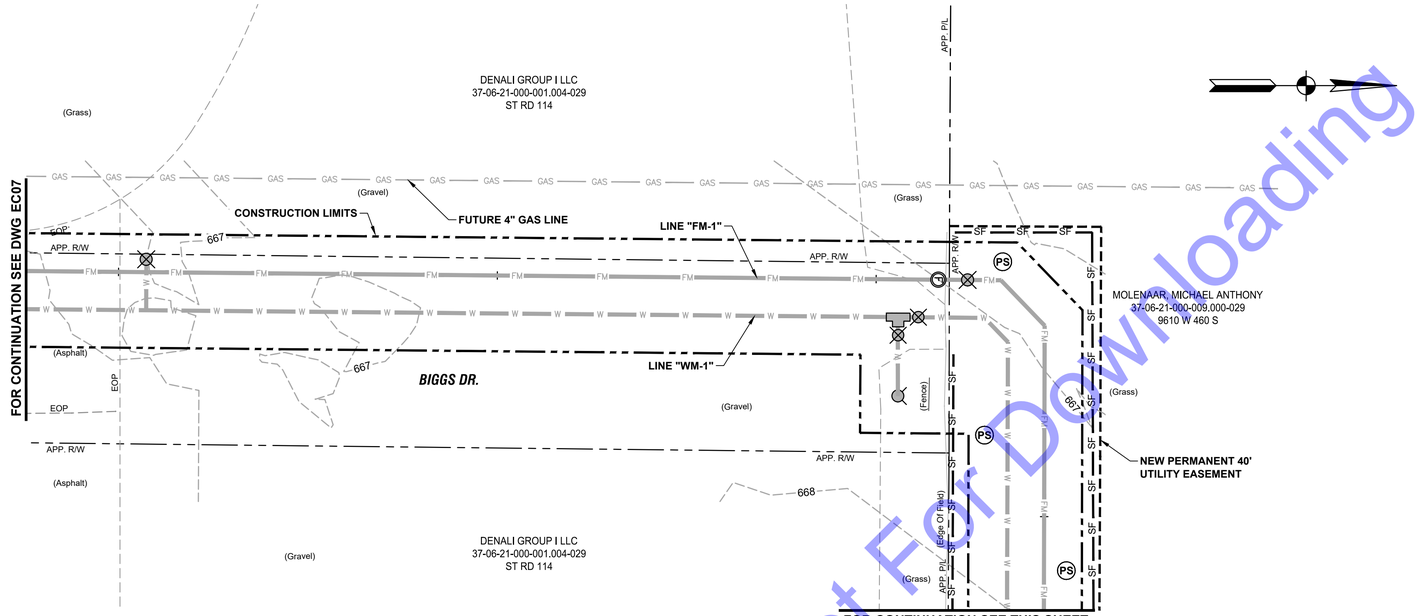

PLAN VIEW

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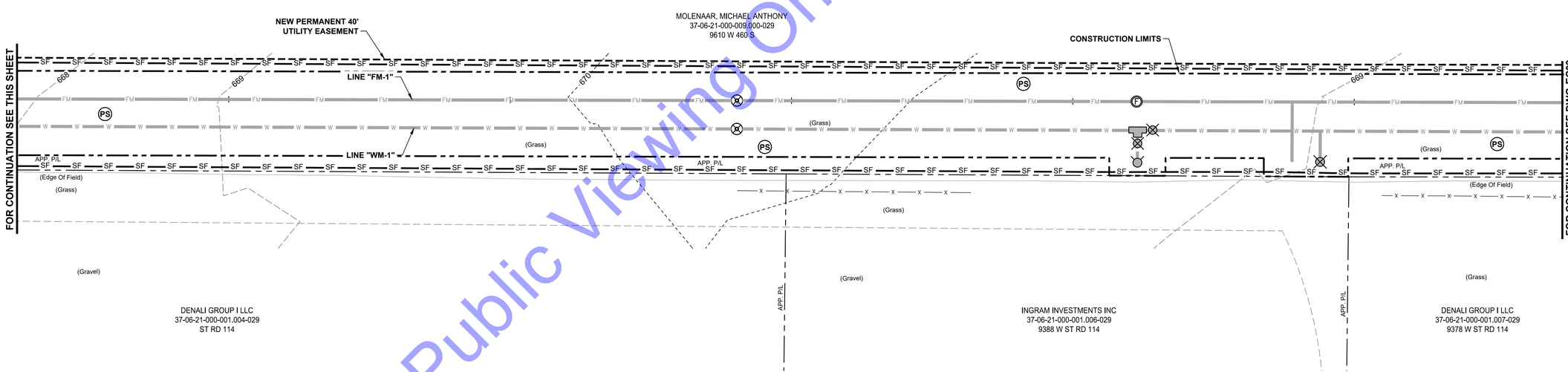

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

EROSION CONTROL LEGEND:

PS	PERMANENT SEEDING	LR	LOG ROLL
SF	SILT FENCE		
CW	CONCRETE WASHOUT		
IP	INLET PROTECTION		
SP	STOCKPILE		

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REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

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EROSION AND SEDIMENTATION CONTROL PLAN VIEWS

Drawing No: **EC08**

Sheet: 13 OF 54

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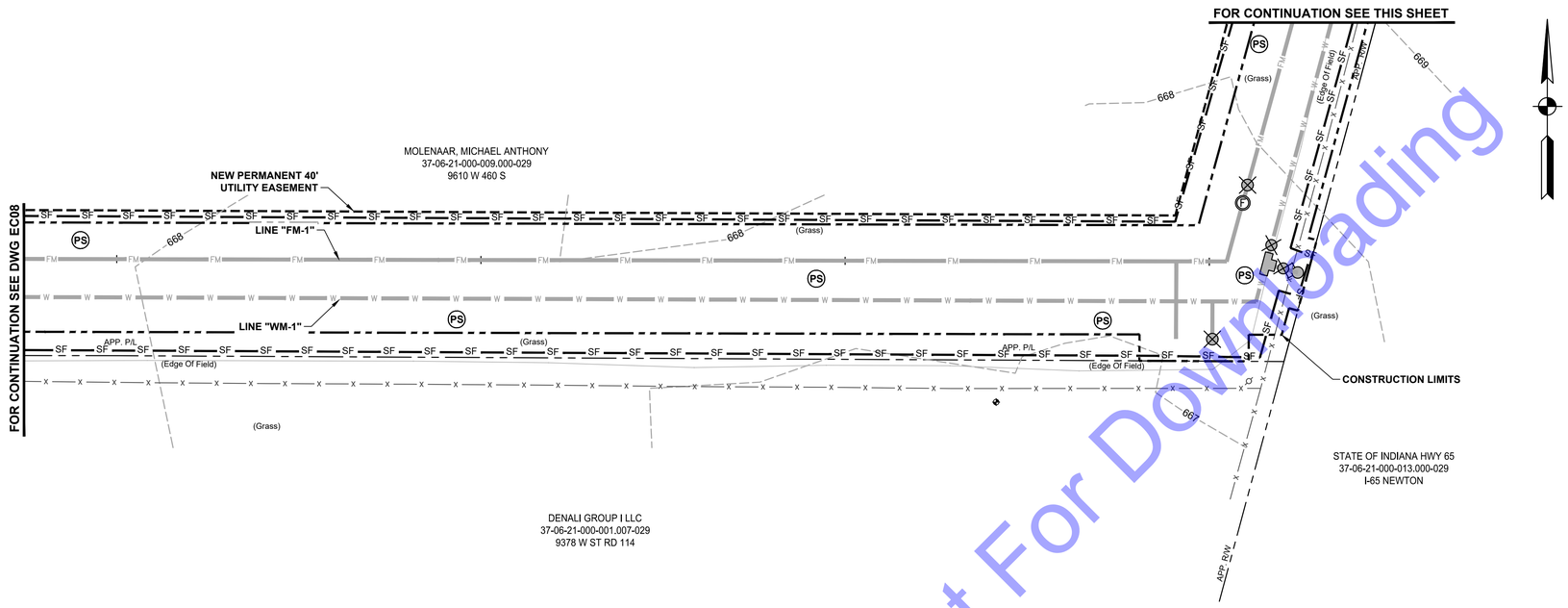

PLAN VIEW

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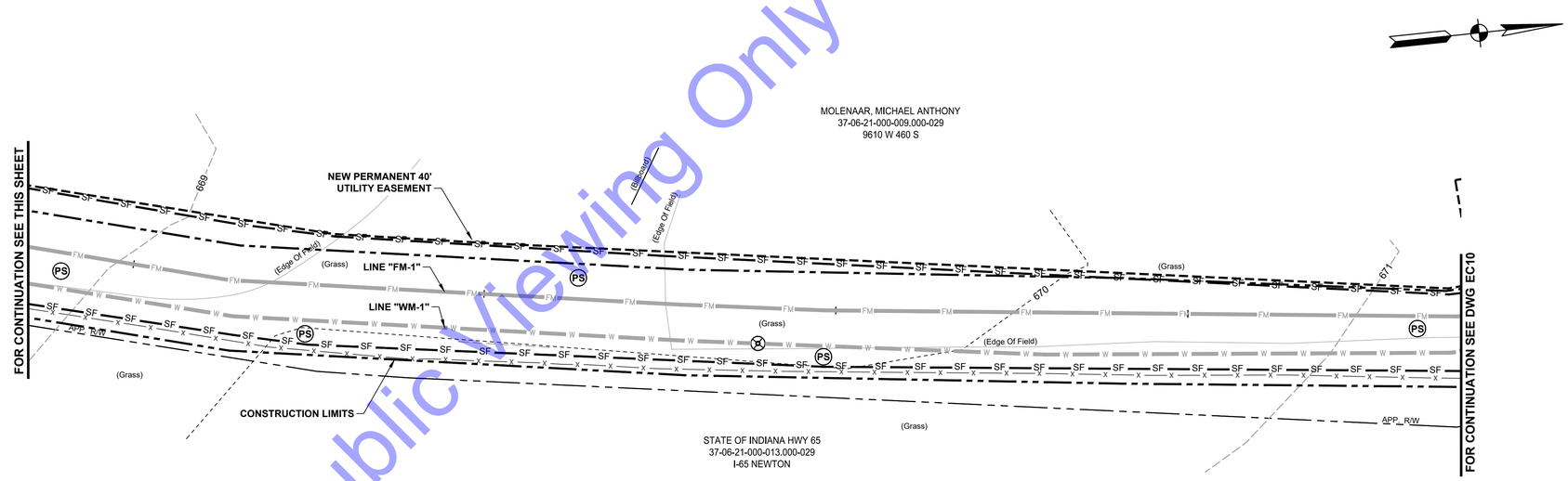

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

EROSION CONTROL LEGEND:

PS	PERMANENT SEEDING	LR	LOG ROLL
SF	SILT FENCE		
CW	CONCRETE WASHOUT		
IP	INLET PROTECTION		
SP	STOCKPILE		

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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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EROSION AND SEDIMENTATION CONTROL PLAN VIEWS

Drawing No: **EC09**

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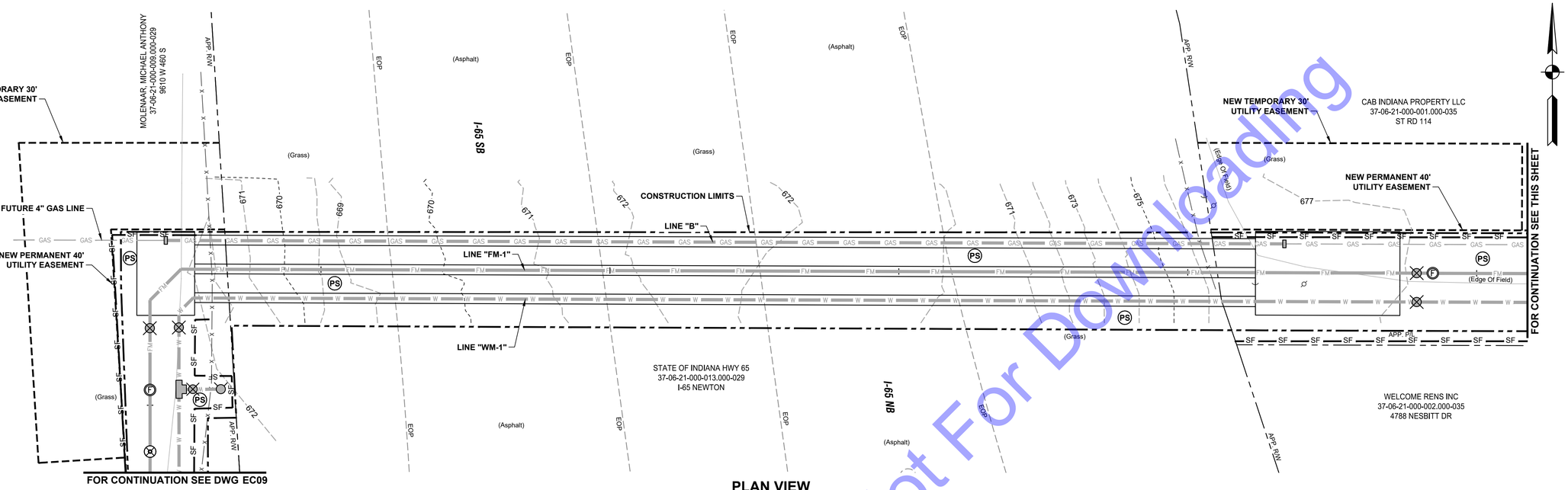

PLAN VIEW

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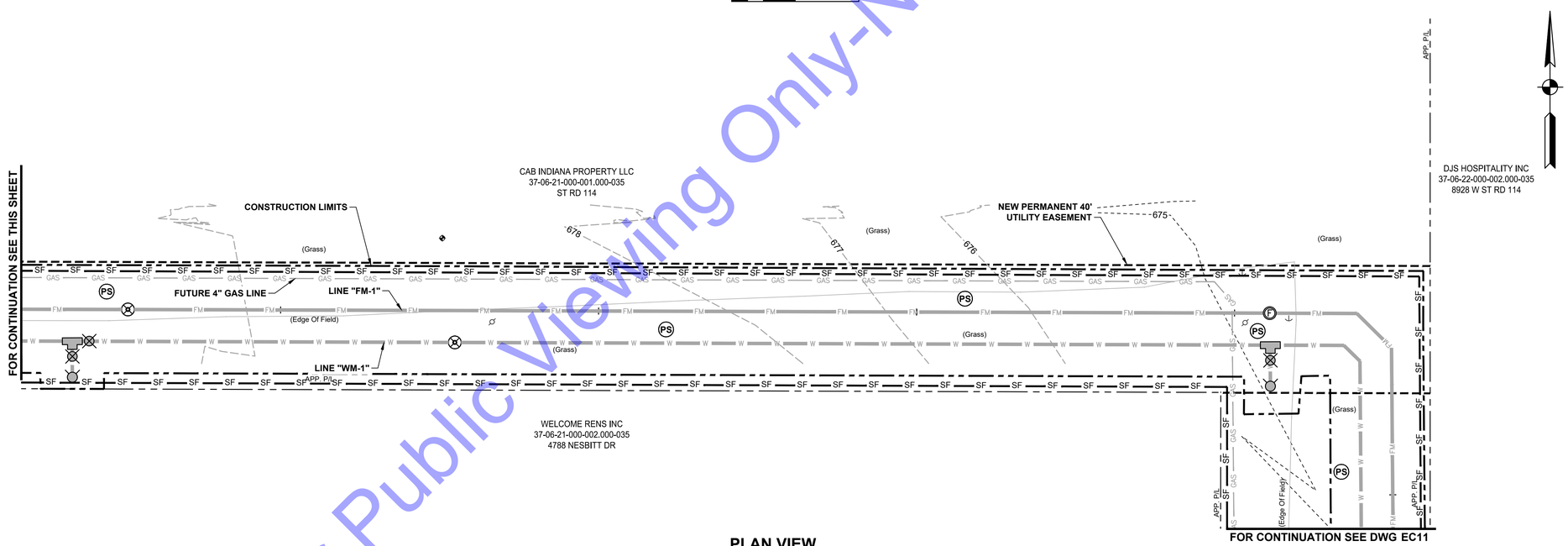

PLAN VIEW

SCALE: 1"=20'-0"

0 20' 40'

EROSION CONTROL LEGEND:

PS	PERMANENT SEEDING	LR	LOG ROLL
SF	SILT FENCE		
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EROSION AND SEDIMENTATION CONTROL PLAN VIEWS

Drawing No:
EC10
Sheet: 15 OF 54

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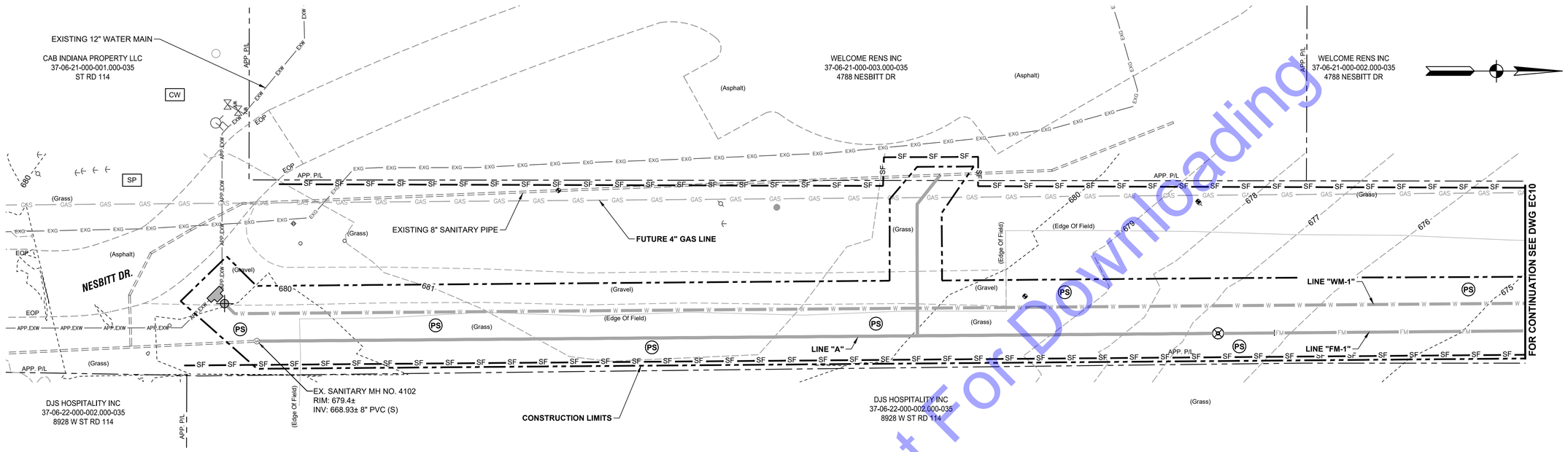

PLAN VIEW

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0 20' 40'

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EROSION CONTROL LEGEND:

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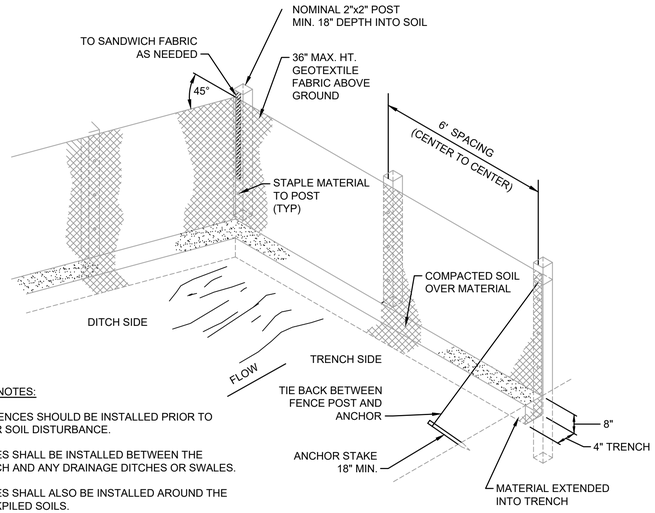

GENERAL NOTES:

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

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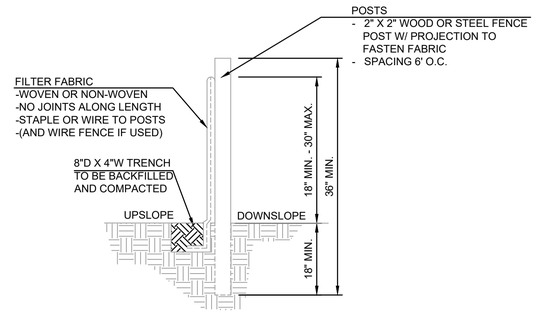


INSTALLATION:

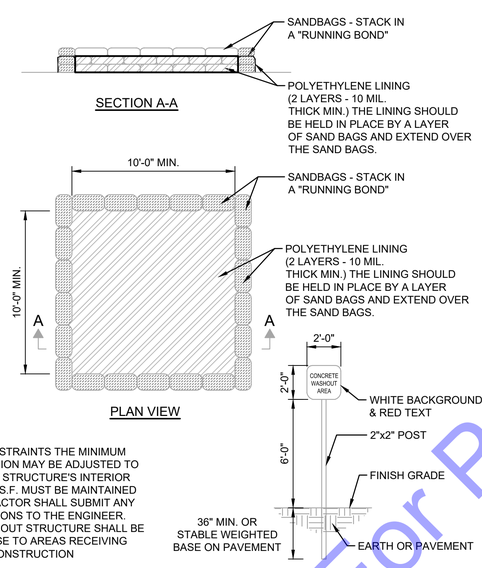
1. THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
2. FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

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

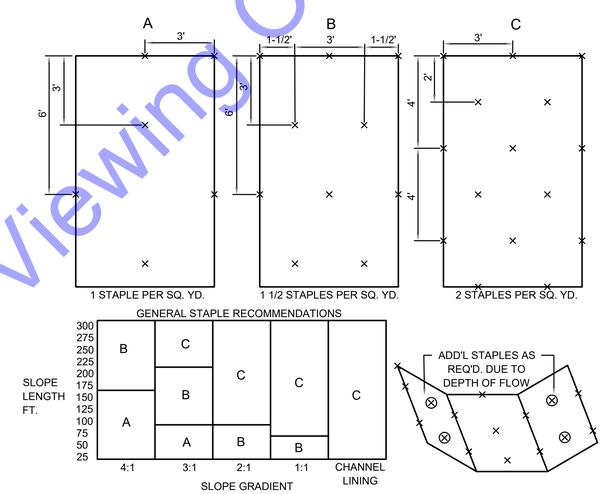
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND LOCAL EROSION AND SEDIMENT CONTROL ORDINANCE, OR SWCD.
2. THE NOTICE OF INTENT (NOI) AND PUBLIC NOTICE FOR THE PROJECT SHALL BE 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 OWNER'S REPRESENTATIVES AND THE OPERATING AUTHORITIES HAVING JURISDICTION OVER THE SITE.



NOTE:
DUE TO SITE CONSTRAINTS THE MINIMUM INTERIOR DIMENSION MAY BE ADJUSTED TO FIT THE SITE. THE STRUCTURE'S INTERIOR FOOTAGE OF 100 S.F. MUST BE MAINTAINED AND THE CONTRACTOR SHALL SUBMIT ANY DESIGN ALTERATIONS TO THE ENGINEER. CONCRETE WASHOUT STRUCTURE SHALL BE RELOCATED CLOSE TO AREAS RECEIVING CONCRETE, AS CONSTRUCTION PROGRESSES.

CONCRETE WASHOUT PIT DETAIL

NOT TO SCALE



EROSION CONTROL BLANKET

NOT TO SCALE

SPECIFICATIONS

EFFECTIVE LIFE

- THE FUNCTIONAL LIFE OF AN EROSION CONTROL BLANKET IS DEPENDENT ON THE MATERIALS USED.

ANCHORING

- STAPLES, PINS OR STAKES USED TO PREVENT MOVEMENT OR DISPLACEMENT OF BLANKET. (FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS.)

MATERIALS

- ORGANIC (STRAW, EXCELSIOR, WOVEN PAPER, COCONUT FIBER, ETC.) OR SYNTHETIC MULCH INCORPORATED WITH A POLYPROPYLENE, NATURAL FIBER OR SIMILAR NETTING MATERIAL. (THE NETTING MAY BE BIODEGRADABLE, PHOTODEGRADABLE OR PERMANENT.)

  NOTE: SOME EROSION CONTROL BLANKET NETTINGS MAY POSE A THREAT TO CERTAIN SPECIES OF WILDLIFE IF THEY BECOME ENTANGLED IN THE NETTING MATRIX.

- SIX TO 12-INCH STAPLES, PINS, OR STAKES.

INSTALLATION

1. SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G., SLOPE, CHANNEL, FLOW VELOCITY) PER THE MANUFACTURER'S RECOMMENDATIONS.
2. PREPARE THE SEEDBED, ADD SOIL AMENDMENTS, AND PERMANENTLY SEED THE AREA IMMEDIATELY FOLLOWING SEEDBED PREPARATION.
3. LAY EROSION CONTROL BLANKETS ON THE SEEDED AREA SO THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL WITH EACH UP-SLOPE OR UP-STREAM BLANKET OVERLAPPING THE DOWN-SLOPE OR DOWN-STREAM BLANKET BY AT LEAST EIGHT INCHES, OR FOLLOW MANUFACTURER'S RECOMMENDATIONS.
4. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SLIT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN. IN CERTAIN APPLICATIONS, THE MANUFACTURER MAY REQUIRE ADDITION CHECK SLOTS AT SPECIFIC LOCATIONS DOWN SLOPE FROM THE UPPERMOST EDGE OF THE UPPER BLANKETS.
5. ANCHOR THE BLANKETS IN PLACE BY DRIVING STAPLES, PINS, OR STAKES THROUGH THE BLANKET AND INTO THE UNDERLYING SOIL. FOLLOW AN ANCHORING PATTERN APPROPRIATE FOR THE SITE CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR DISPLACEMENT OF THE BLANKET.
- IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA, REPLACE AND STAPLE THE BLANKET.

NOTES

CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.

AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

CITY OF RENSSELAER
JASPER COUNTY, INDIANA

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Issue Date: 2-10-25	Project No: J24115	Scale: AS SHOWN

EROSION CONTROL DETAILS

Drawing No:
EC12

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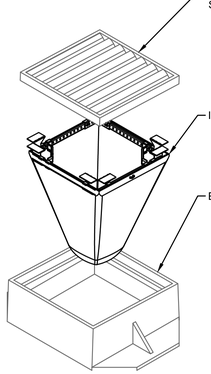
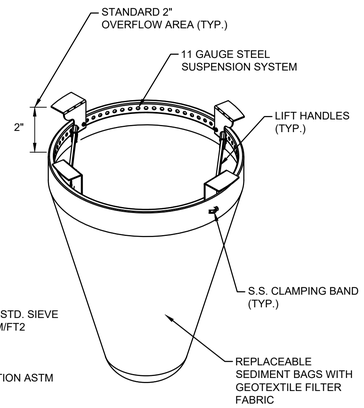


NOTE:
SEDIMENT BAG

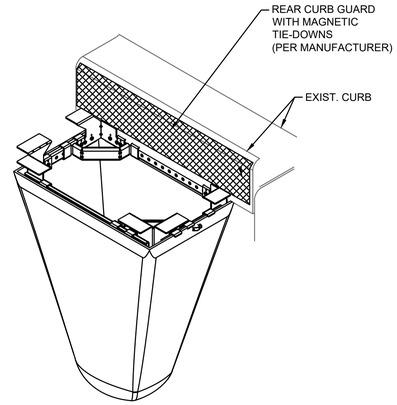
HYDRAULIC REQUIREMENTS:
OPENING PER ASTM D-4751 -20 US STD. SIEVE
FLOW RATE ASTM D-4491 - 200 GPM/FT2

PHYSICAL PROPERTIES:
UV RESISTANCE ASTM D-4355
TENSILE STRENGTH AND ELONGATION ASTM D-4632

TYPICAL INSTALLATION UNDER INLET



ROUND/SQUARE INLET FILTER SYSTEM



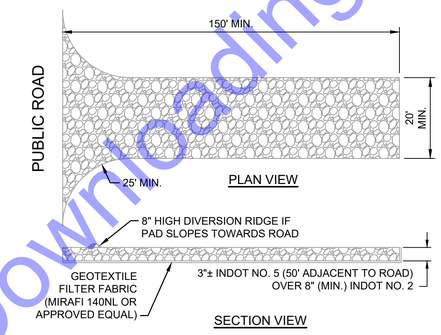
COMBINATION INLET FILTER
FOR CURB HOODS

GENERAL NOTES:

1. TO BE INSTALLED AT EXISTING STANDARD INLET GRATES IN PAVED AREAS DOWNSTREAM OF EXCAVATION.
2. INSTALL INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE AND PER MANUFACTURER'S RECOMMENDATIONS.
3. FOR CURB BOX INLETS, CURB BACK MUST HAVE FILTER ATTACHED PER MANUFACTURER'S RECOMMENDATION OR CONTRACTOR MUST CREATE A DAM TO DIRECT RUNOFF INTO THE SEDIMENT BAG.

INLET FILTER EROSION CONTROL DETAIL FOR STANDARD SIZED STORM STRUCTURES

NOT TO SCALE

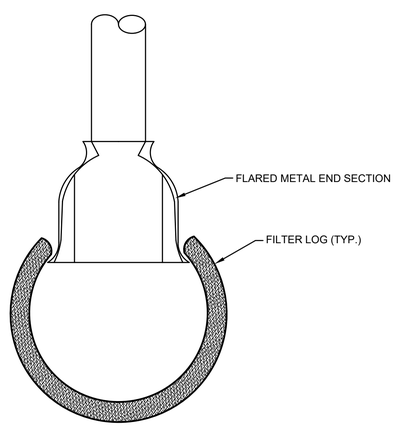


MAINTENANCE:

1. INSPECT DAILY AND AFTER EACH STORM EVENT OR HEAVY USE.
2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS REQUIRED. MAINTAIN MINIMUM DEPTH THROUGHOUT CONSTRUCTION.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY SWEEPING OR BRUSHING. (DO NOT FLUSH AREA WITH WATER UNLESS WATER IS CONVEYED TO SEDIMENT TRAP.)
5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



DEGRADABLE FILTRATION LOGS END SECTION - DETAIL

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EROSION CONTROL DETAILS

Drawing No:
EC13

Sheet: 18 OF 54

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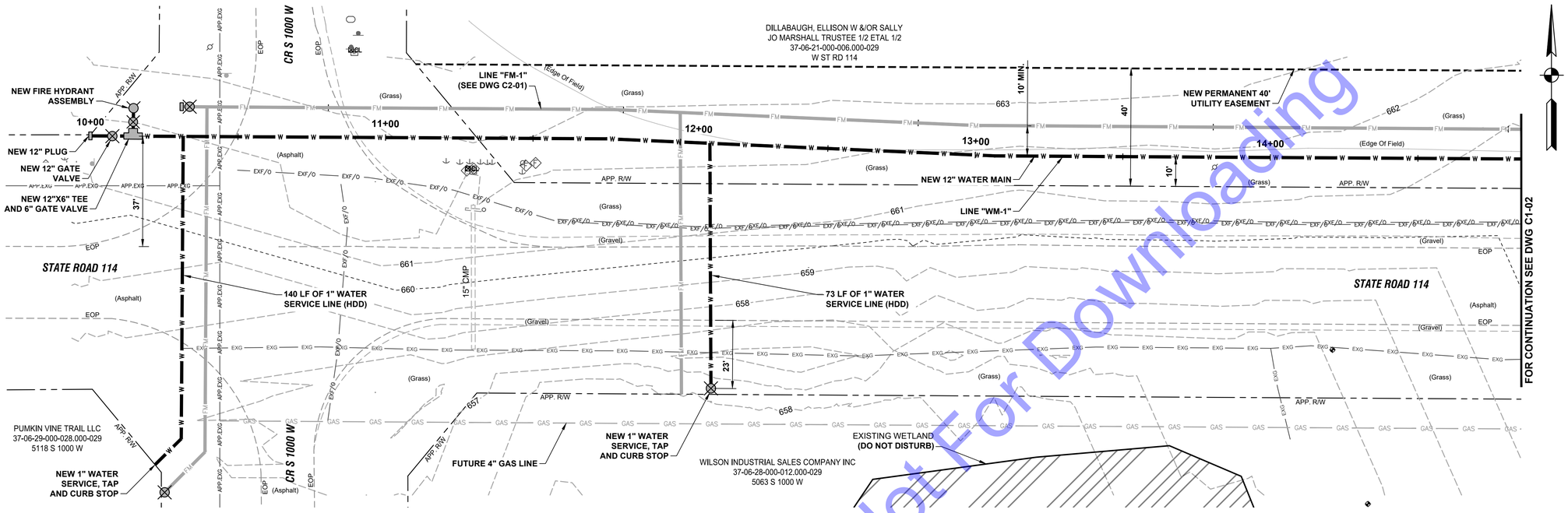
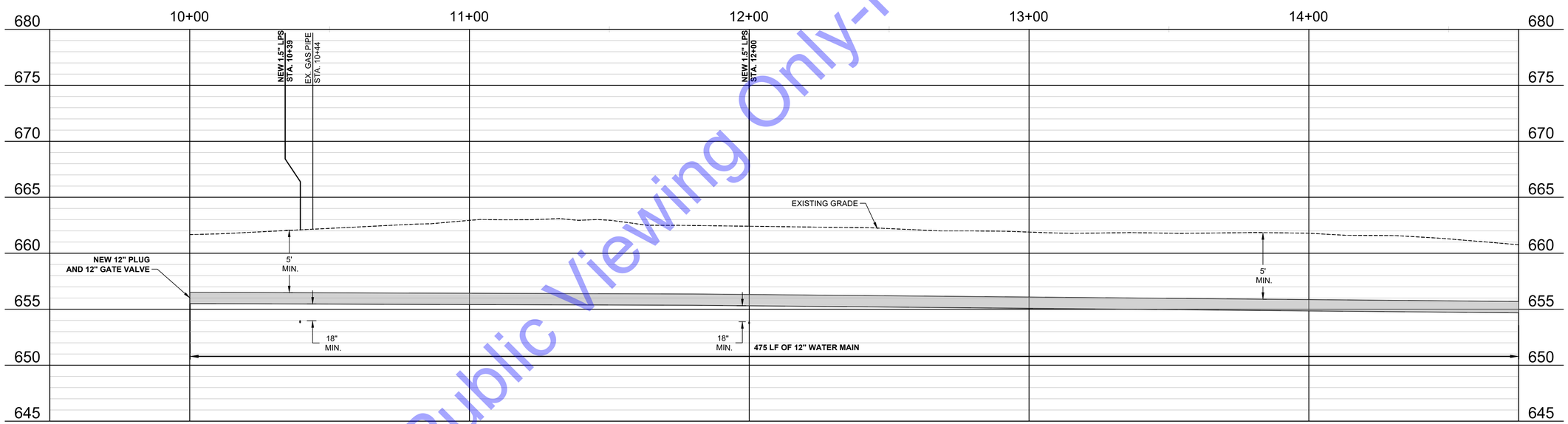


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

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2. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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

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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No:
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Sheet: 19 OF 54

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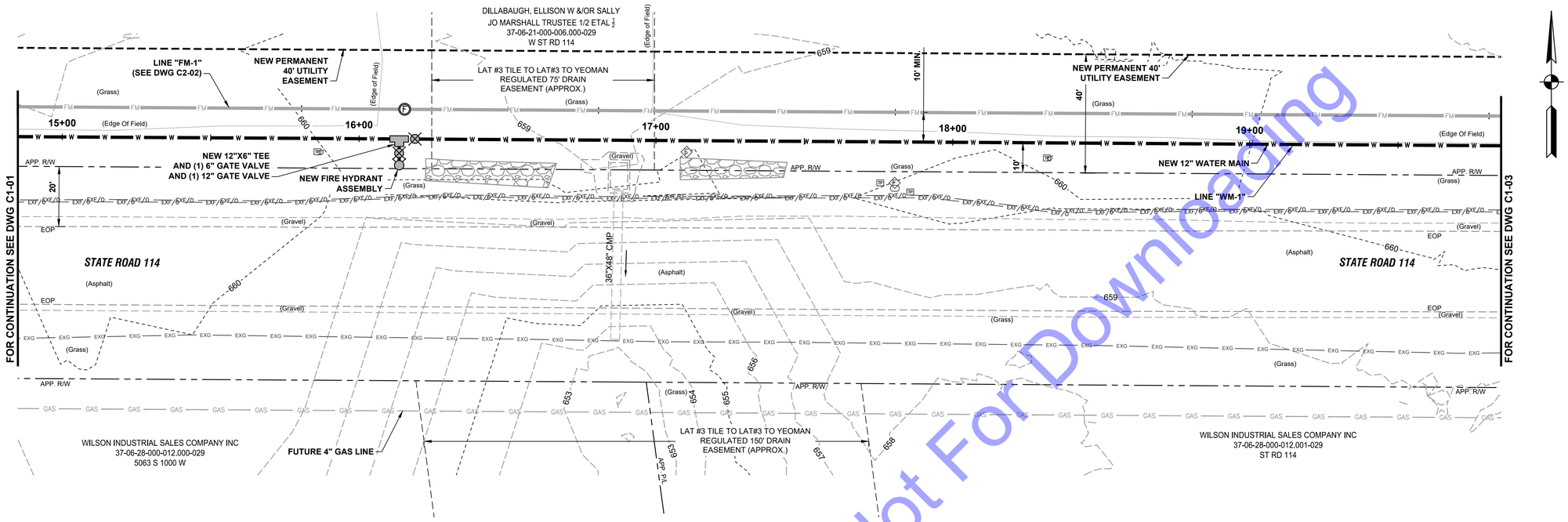
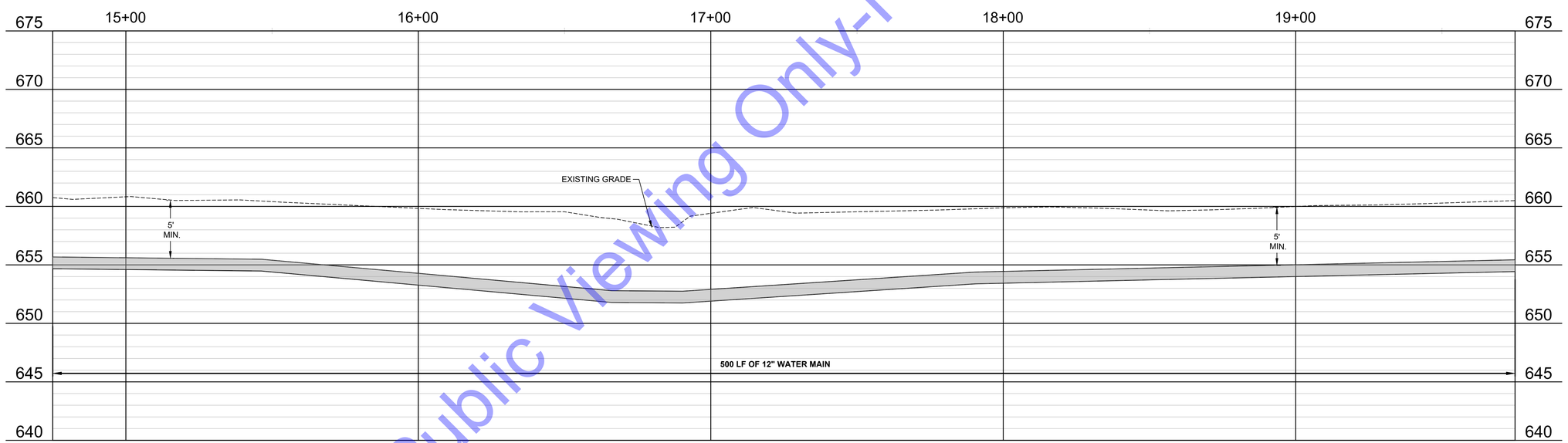


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

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PLAN AND PROFILE VIEWS - LINE "WM-1"

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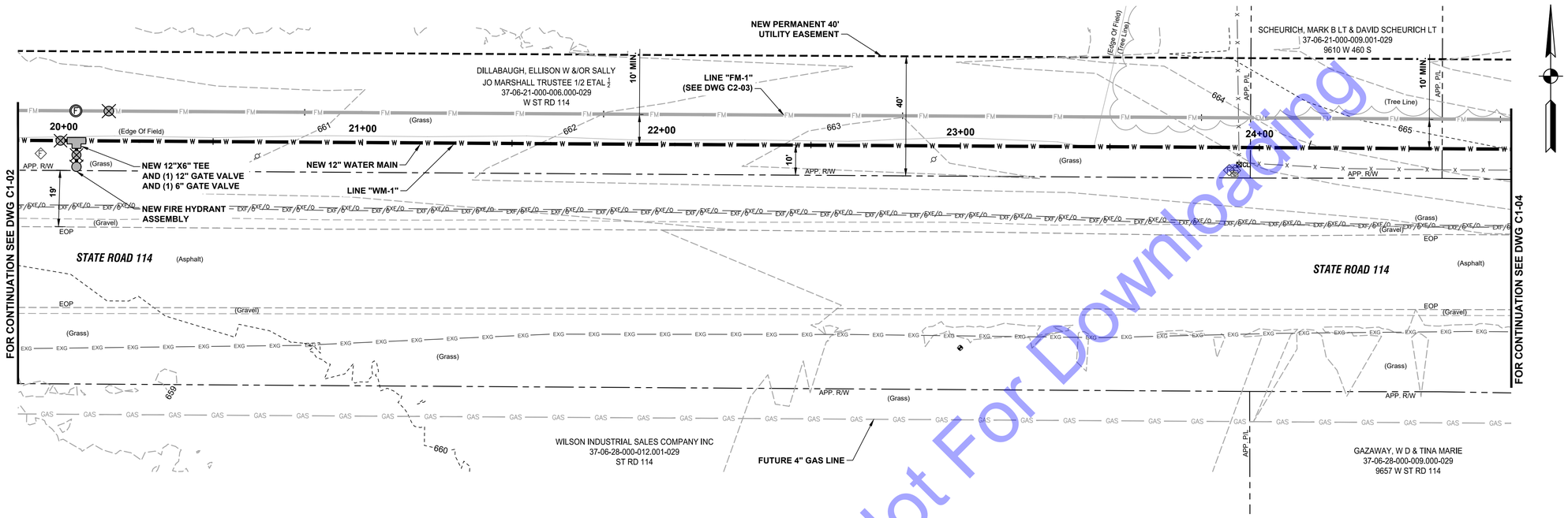

PLAN VIEW - LINE "WM-1"

PROFILE VIEW - LINE "WM-1"

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Drawing No: **C1-03**

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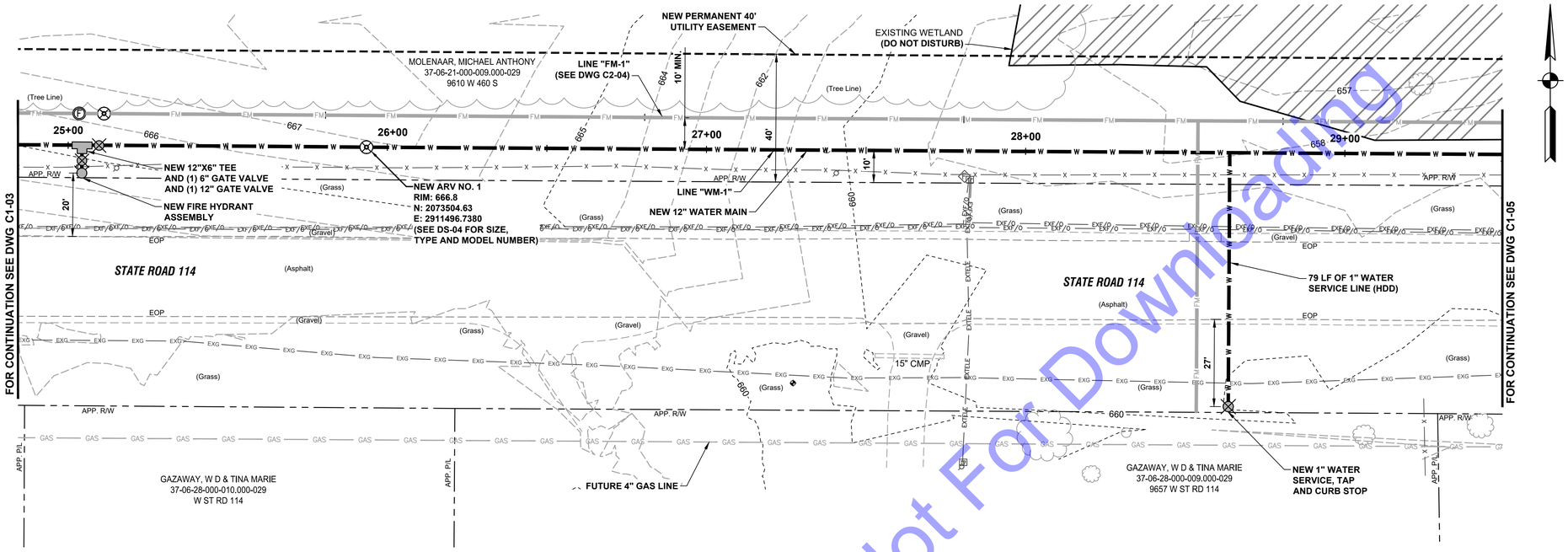

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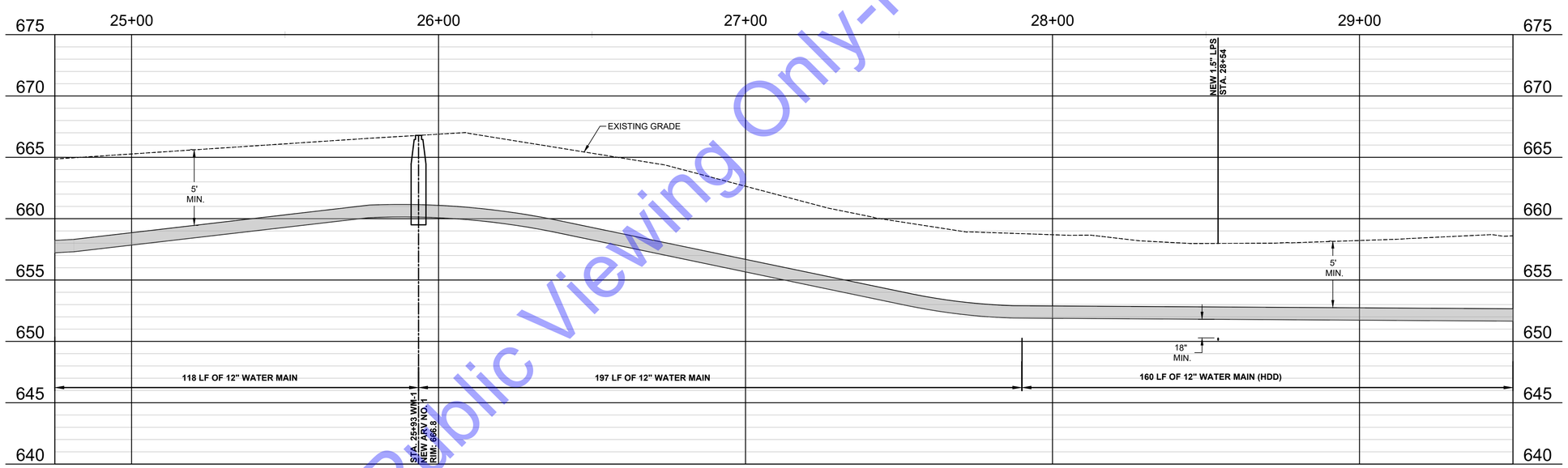

PROFILE VIEW - LINE "WM-1"

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PLAN AND PROFILE VIEWS - LINE "WM-1"

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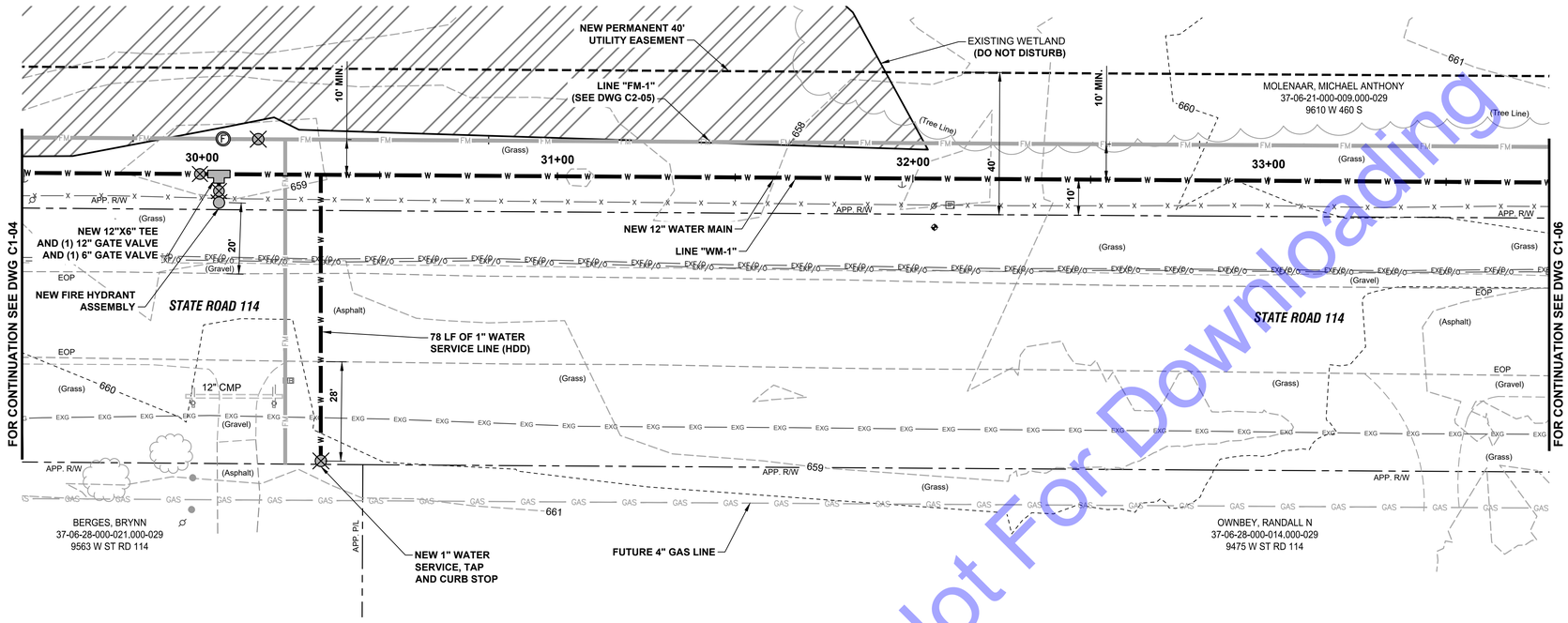
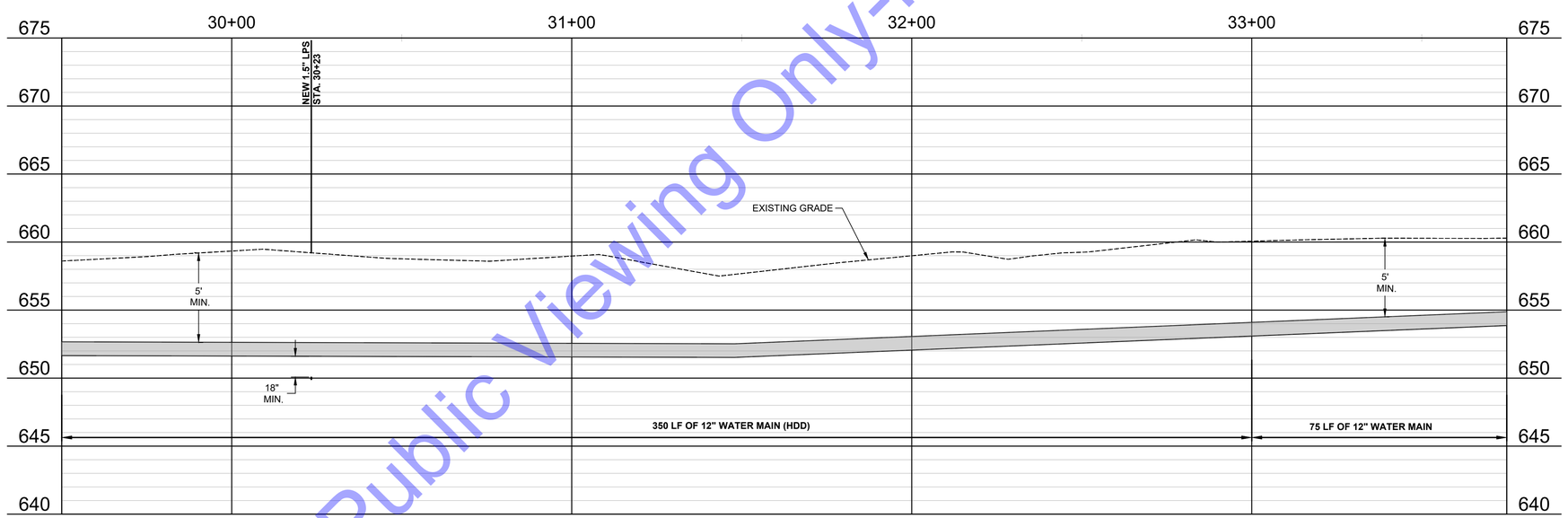


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

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Issue Date: 2-10-25	Project No: J24115	Scale: AS SHOWN

PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No: **C1-05**

Sheet: 23 OF 54

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHAREDIN CLIENTS M-Z\RENSSELAER\RD J24115 I-65 WATER AND SEWER IMPROVEMENTS\06 CAD\A CURRENT FILES\1 DRAWINGS\04-PLAN AND PROFILE DRAWINGS.DWG
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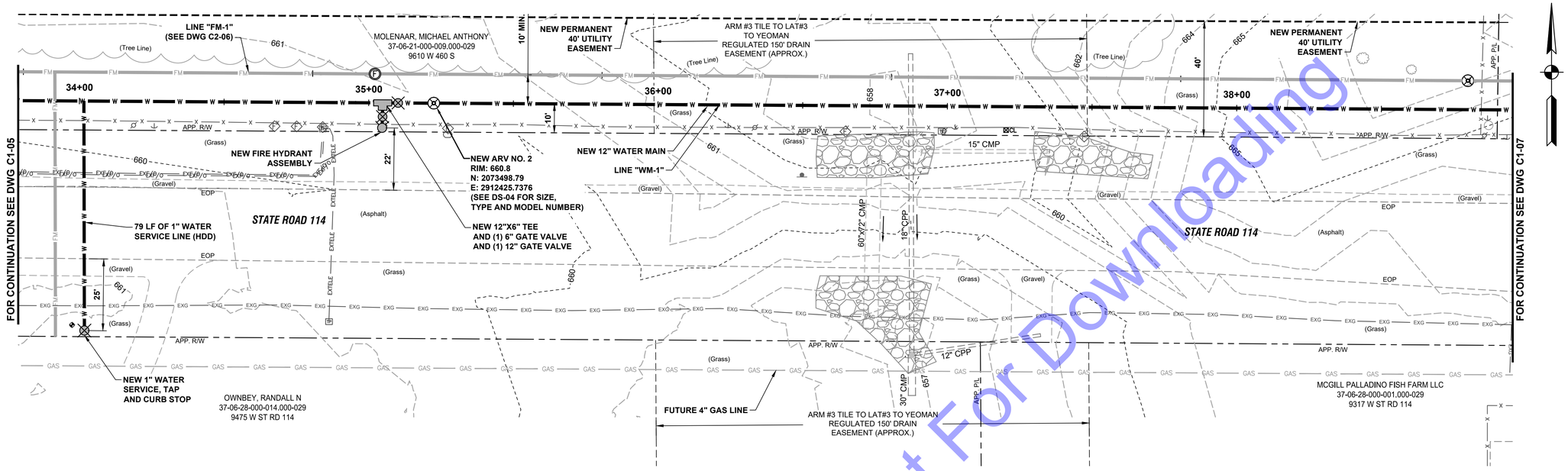
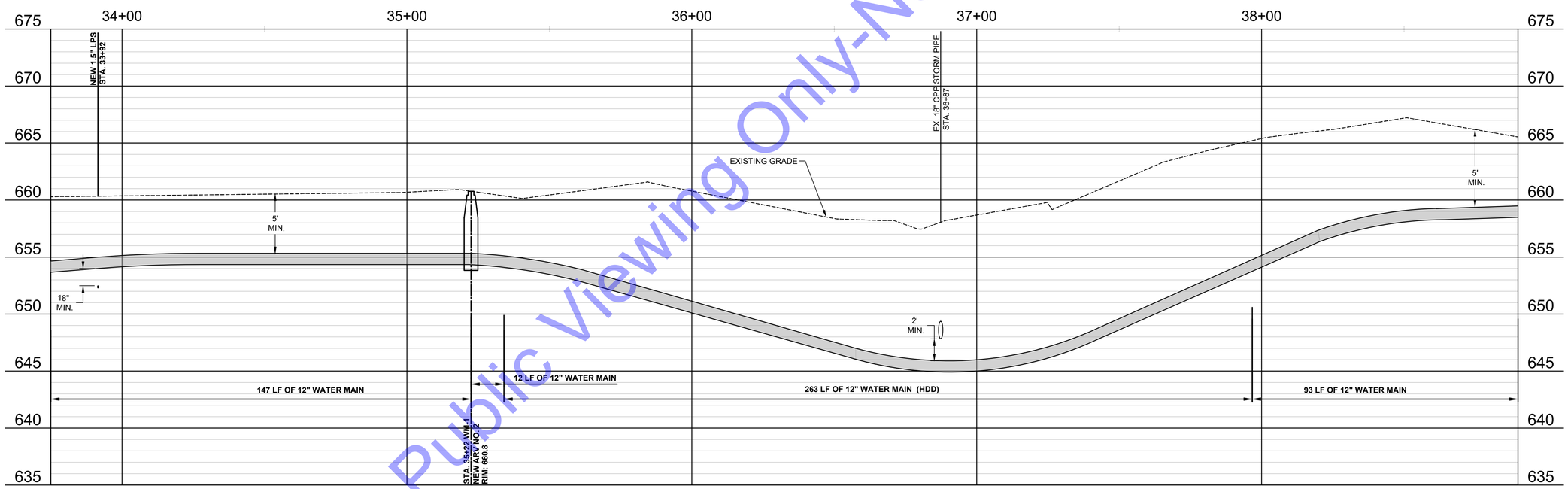


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. THE CONTRACTORS EXCAVATION, MATERIALS, AND EQUIPMENT SHALL NOT ENCROACH WITHIN 16 FEET OF PAVEMENT. IN THE EVENT THIS BECOMES NECESSARY FOR SHORT PERIODS OF TIME SUCH AS FOR A DELIVERY VEHICLE TO ENTER OR EXIT THE ROADWAY, A FLAGGER SHALL BE UTILIZED.

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

VERTICAL SCALE: 1"=5'
0 5'

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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No: **C1-06**

Sheet: 24 OF 54

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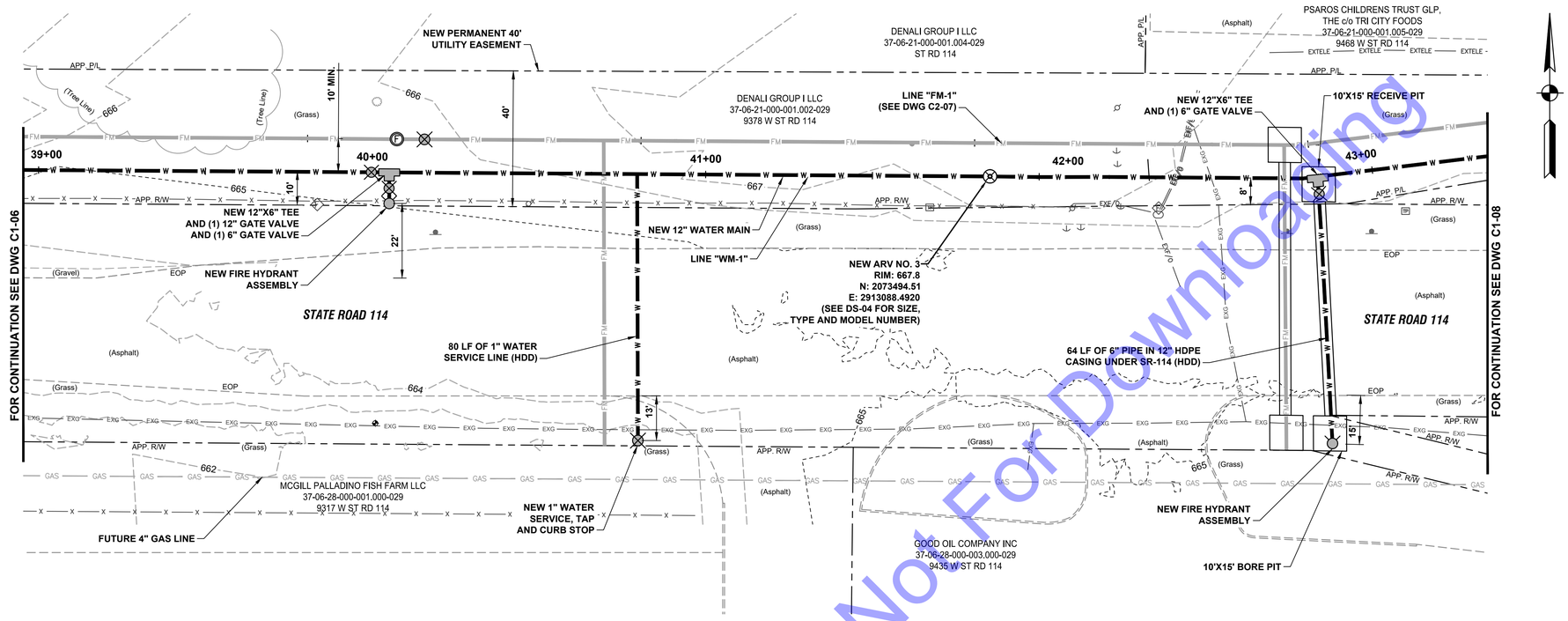
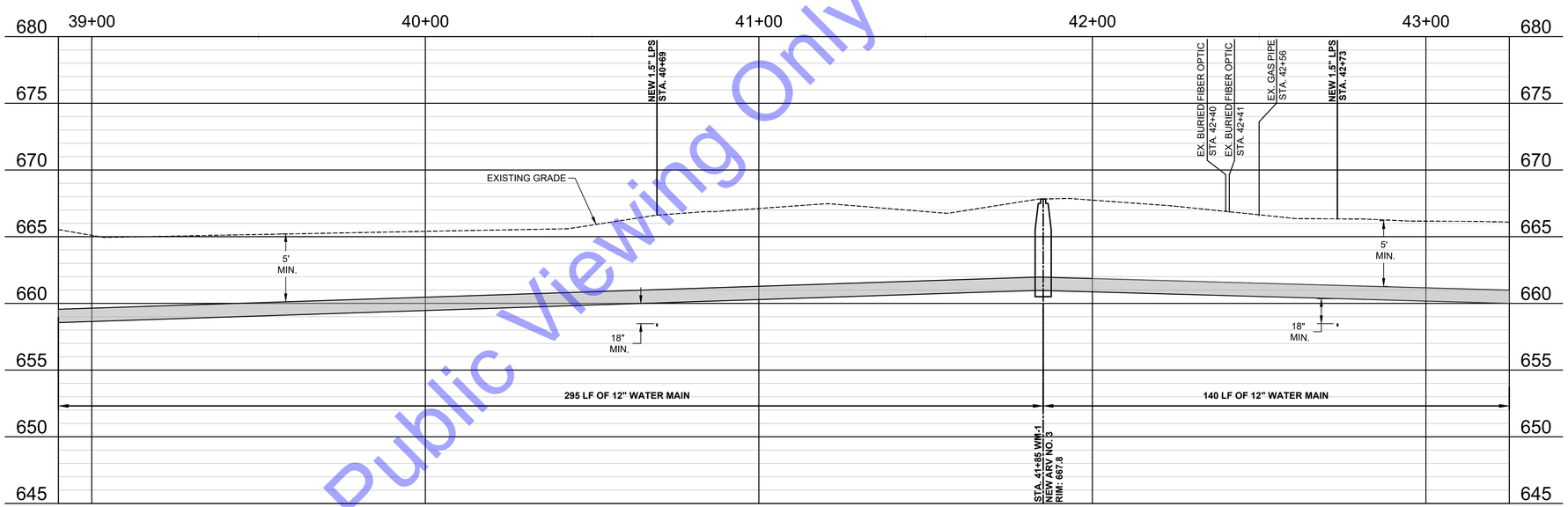


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. THE CONTRACTORS EXCAVATION, MATERIALS, AND EQUIPMENT SHALL NOT ENCROACH WITHIN 16 FEET OF PAVEMENT. IN THE EVENT THIS BECOMES NECESSARY FOR SHORT PERIODS OF TIME SUCH AS FOR A DELIVERY VEHICLE TO ENTER OR EXIT THE ROADWAY, A FLAGGER SHALL BE UTILIZED.

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VERTICAL SCALE: 1" =5'
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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

CITY OF RENSSELAER
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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No: **C1-07**

Sheet: 25 OF 54

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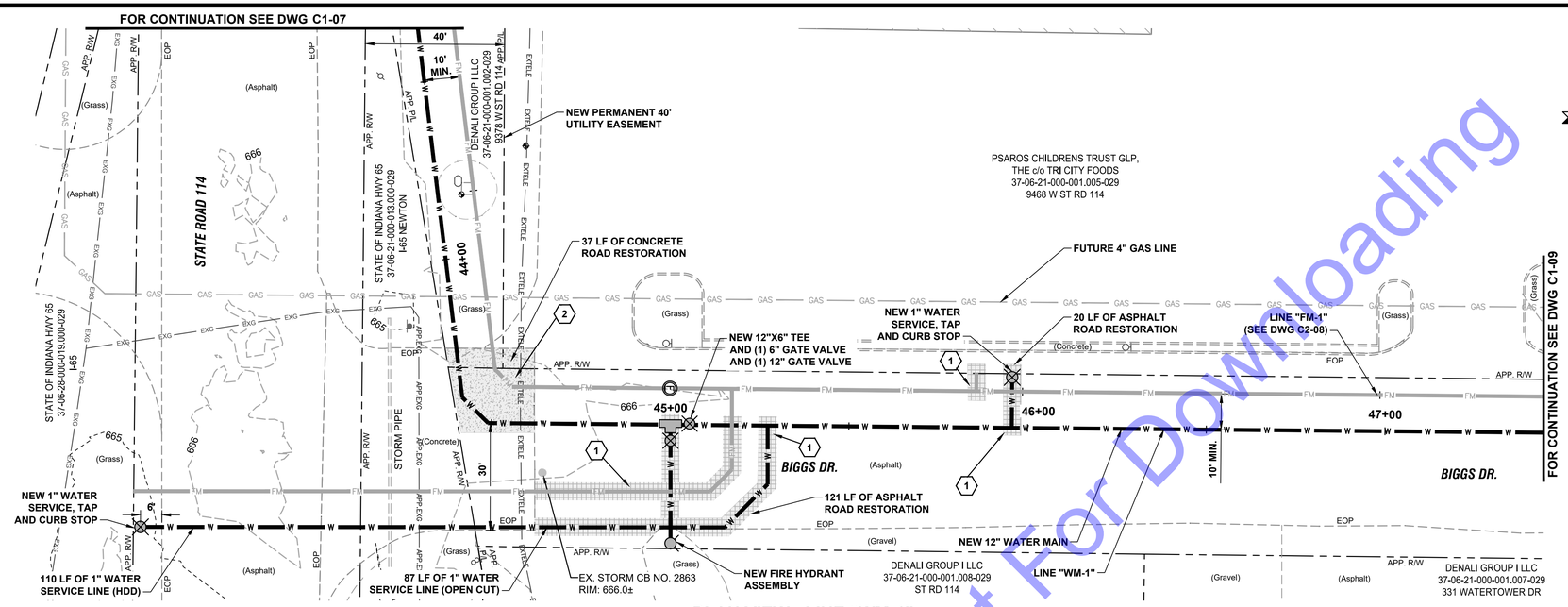
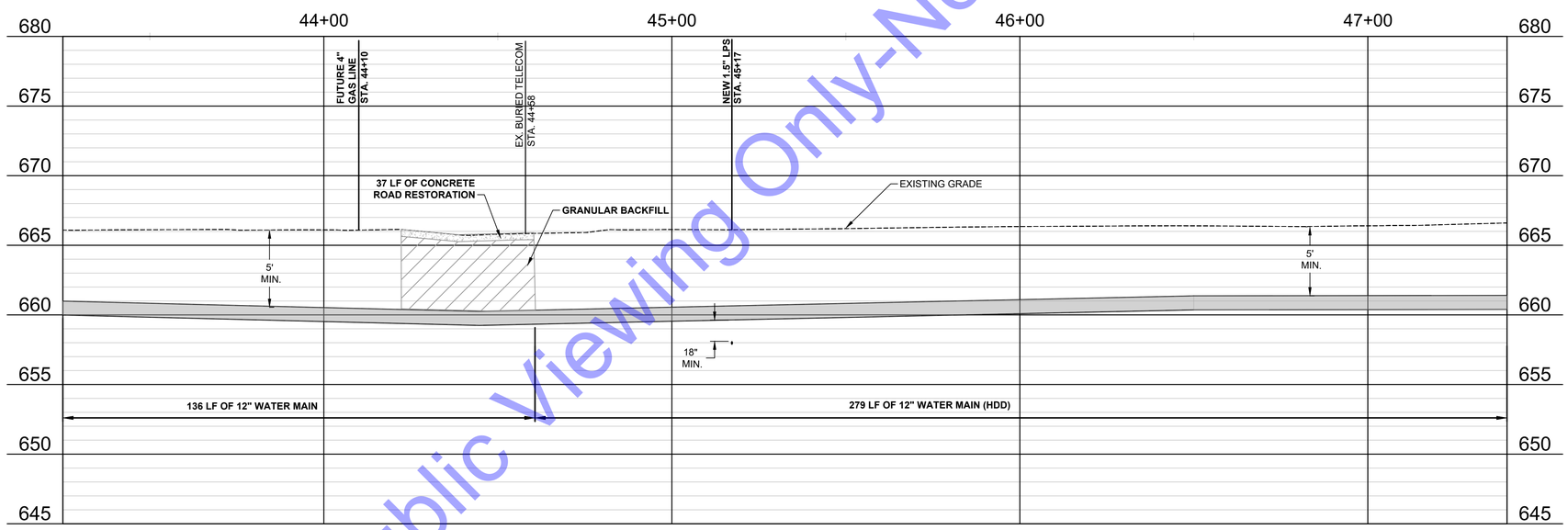


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

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

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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER
Signature 11-12-24 Date

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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No:
C1-08
Sheet: 26 OF 54

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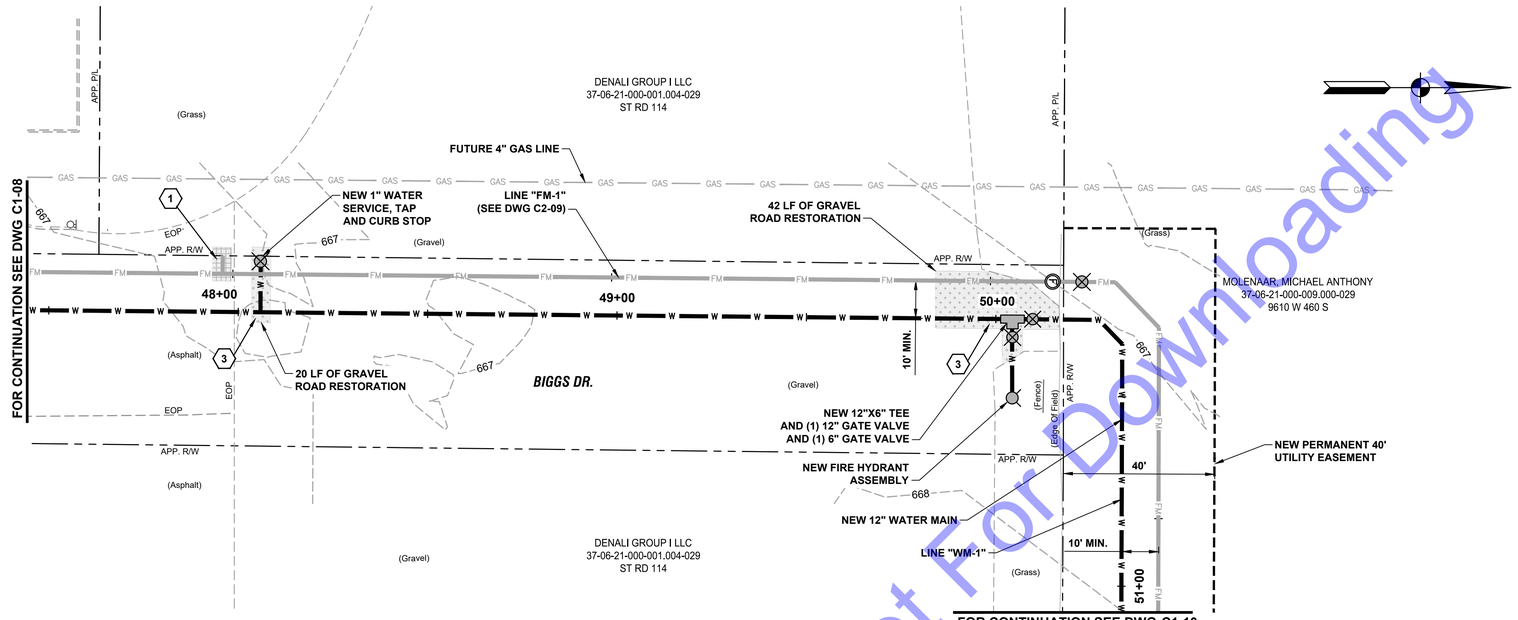
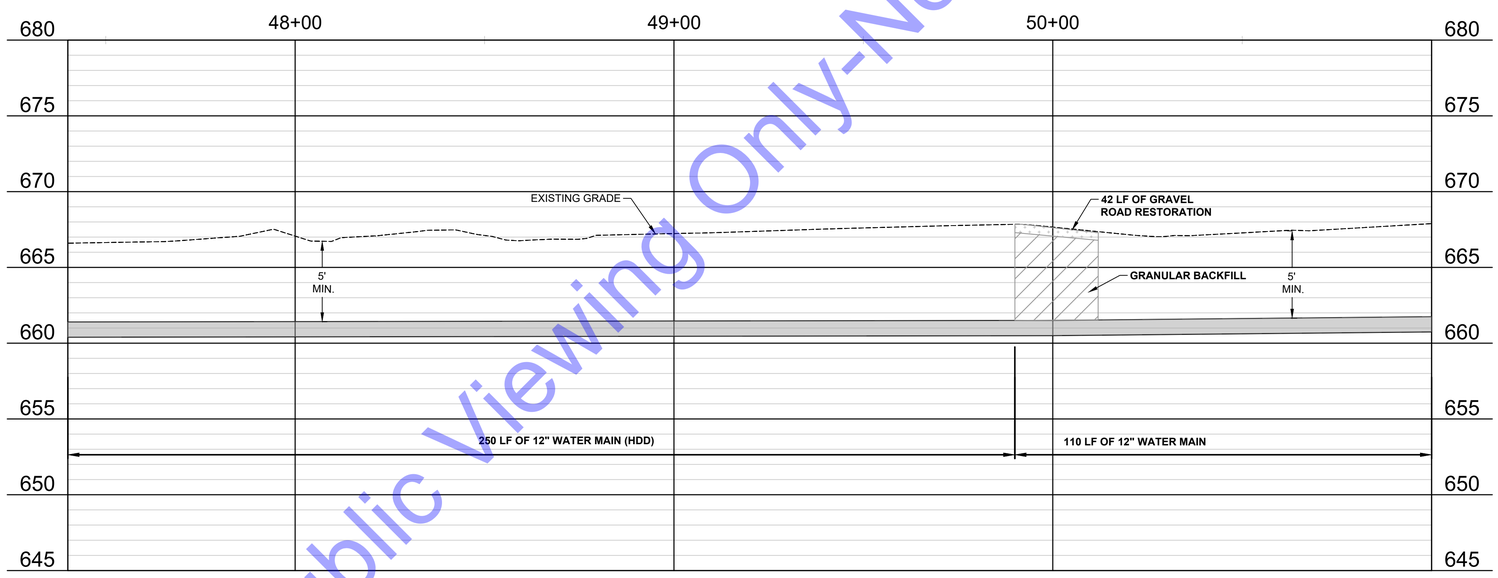


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

HORIZONTAL SCALE: 1" = 20'-0"
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VERTICAL SCALE: 1" =5'
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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No: **C1-09**

Sheet: 27 OF 54

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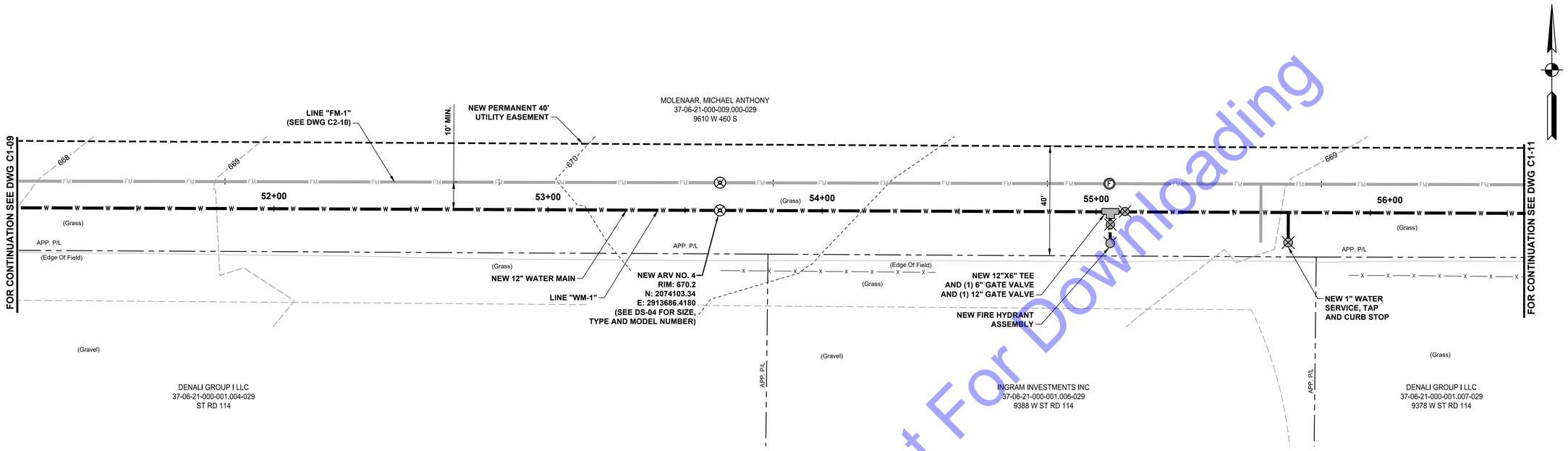
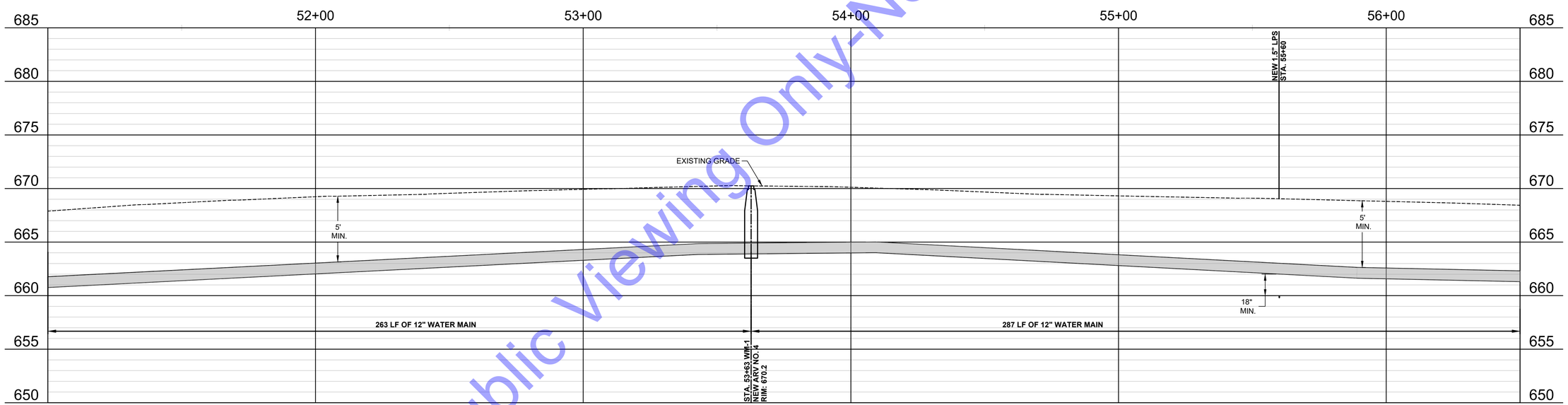


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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

VERTICAL SCALE: 1"=5'
0 5'

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REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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Drawing No:
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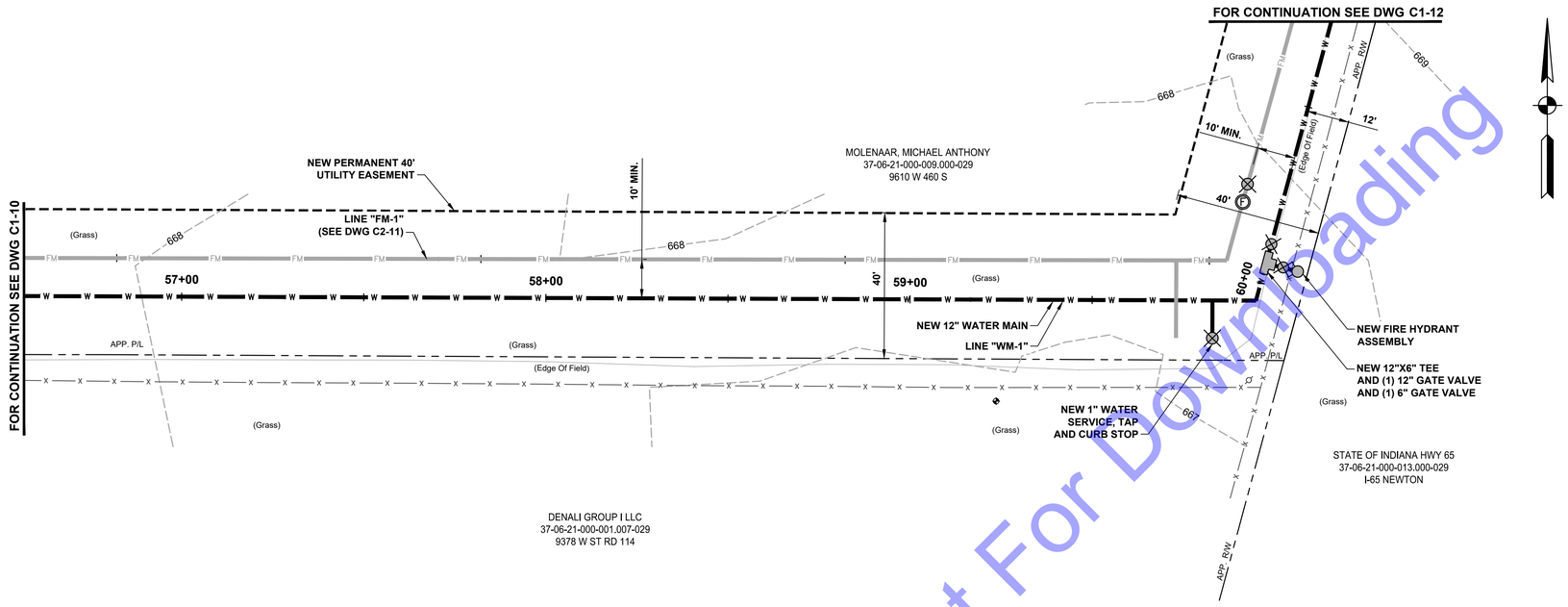

PLAN VIEW - LINE "WM-1"

PROFILE VIEW - LINE "WM-1"

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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. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. **EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.**

HORIZONTAL SCALE: 1" = 20'-0"
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Signature: Andrew C. Cochrane — Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No: **C1-11**

Sheet: 29 OF 54

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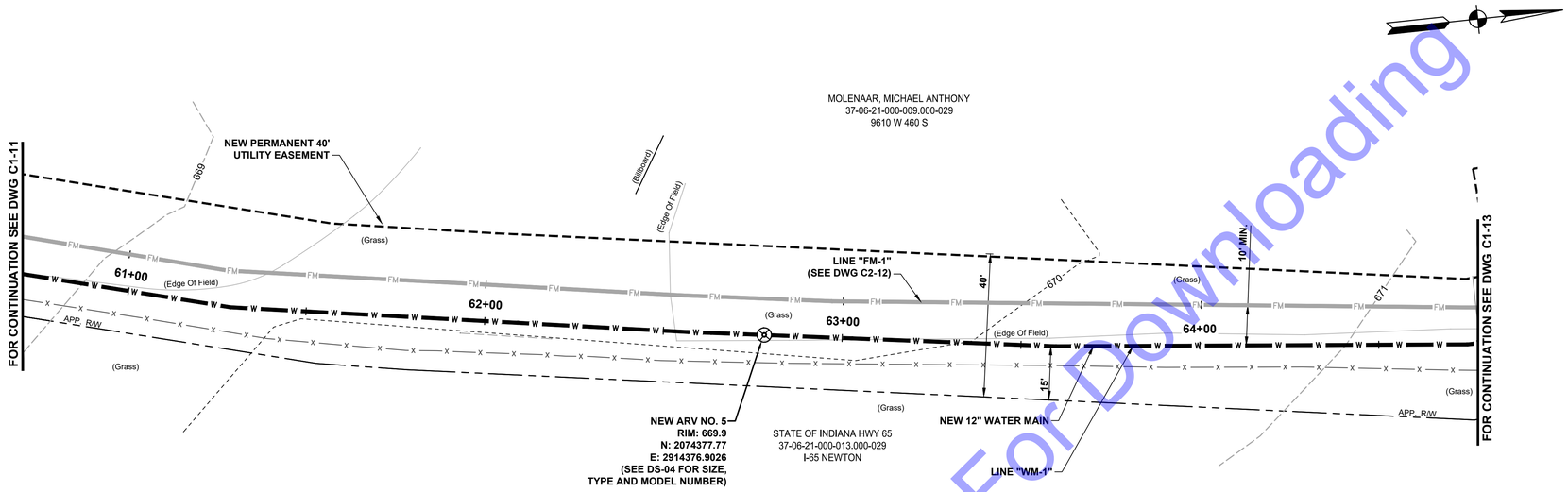
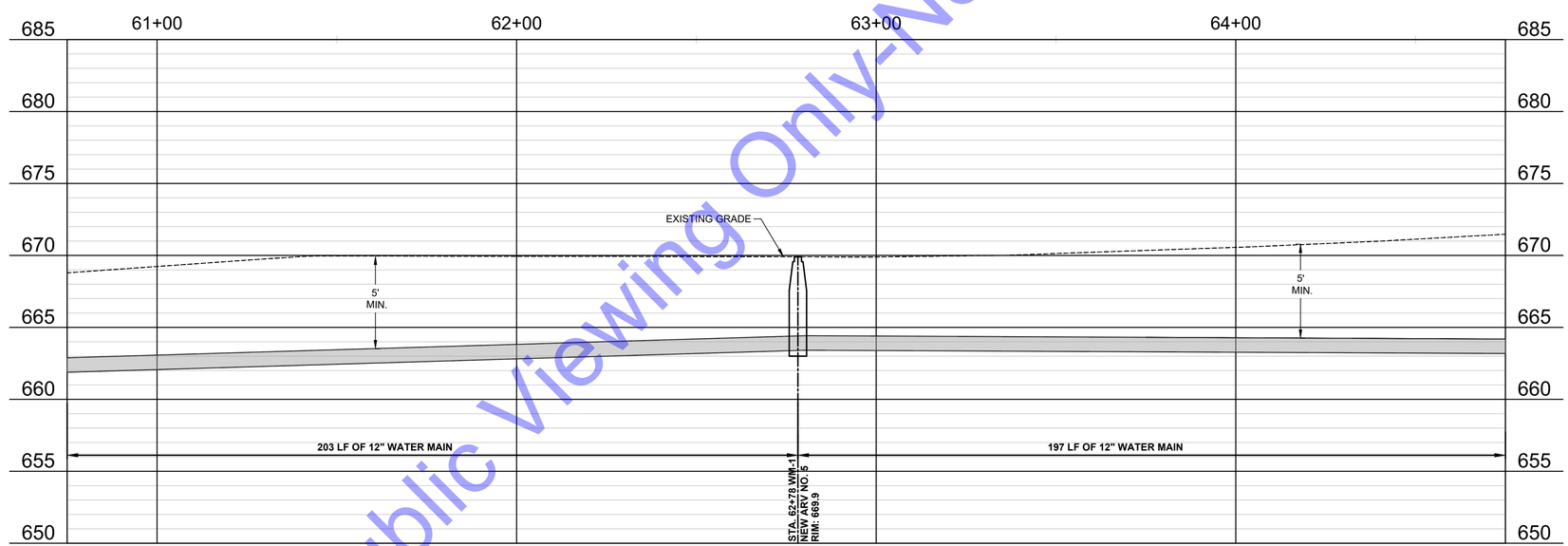


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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

VERTICAL SCALE: 1" =5'
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Signature: Andrew C. Cochrane — Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No: C1-12

Sheet: 30 OF 54

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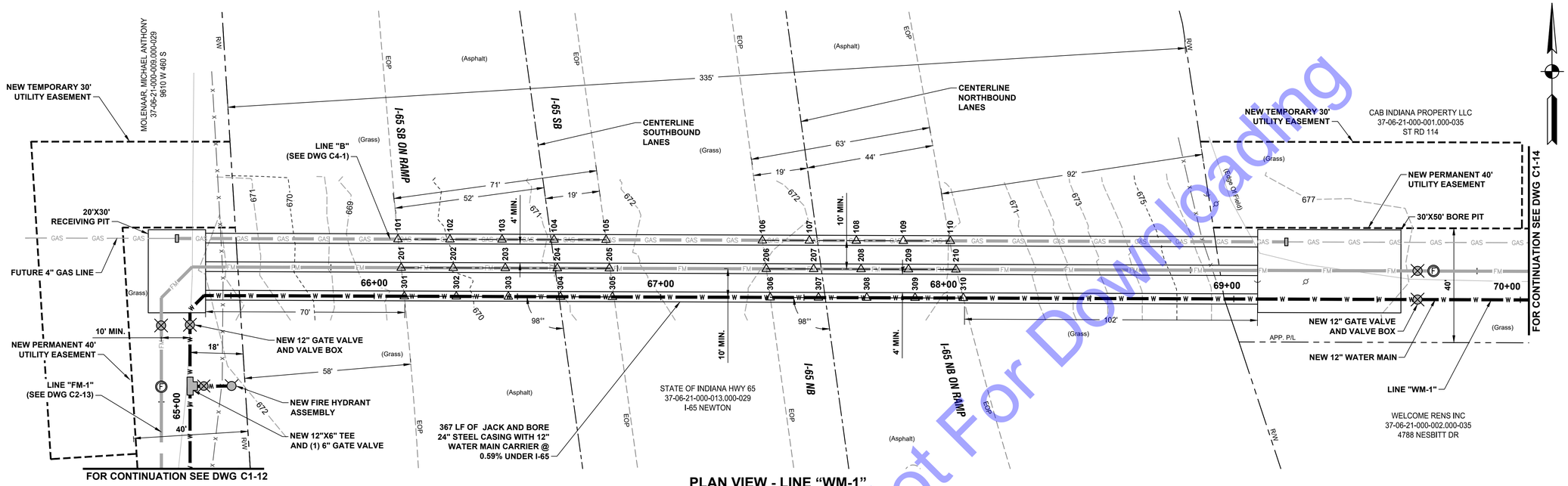
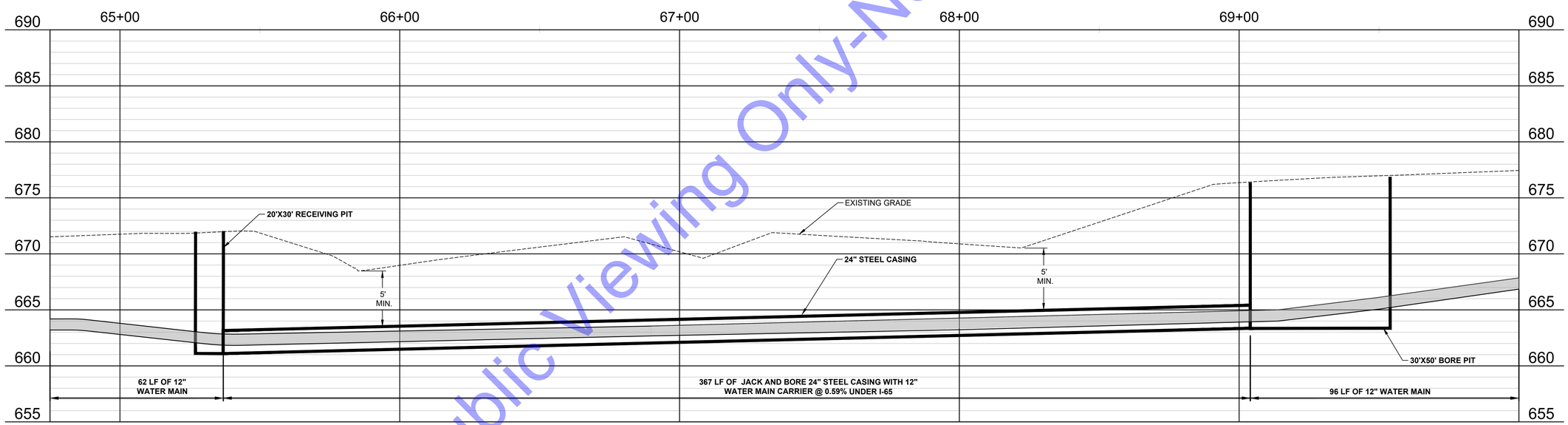


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING STARTING AND FINAL ROAD ELEVATIONS OF SETTLEMENT MONITORING POINTS 301-310 PRIOR TO AND AFTER CONSTRUCTION OF WATER MAIN CROSSING IN ACCORDANCE WITH INDOT PERMIT. FINAL ELEVATIONS SHALL ONLY BE TAKEN AT LEAST 6 MONTHS AFTER INSTALLATION
2. SETTLEMENT MONITORING POINTS SHALL BE MARKED WITH MAGNETIC NAILS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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

VERTICAL SCALE: 1" =5'
0 5'

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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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JASPER COUNTY, INDIANA
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Issue Date: 2-10-25	Project No: J24115	Scale: AS SHOWN

PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No:
C1-13
Sheet: 31 OF 54

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHAREDIN CLIENTS M-Z\RENSSELAER\D. J24115 I-65 WATER AND SEWER IMPROVEMENTS\06 CADD\ CURRENT FILES\1 DRAWINGS\04-PLAN AND PROFILE DRAWINGS.DWG
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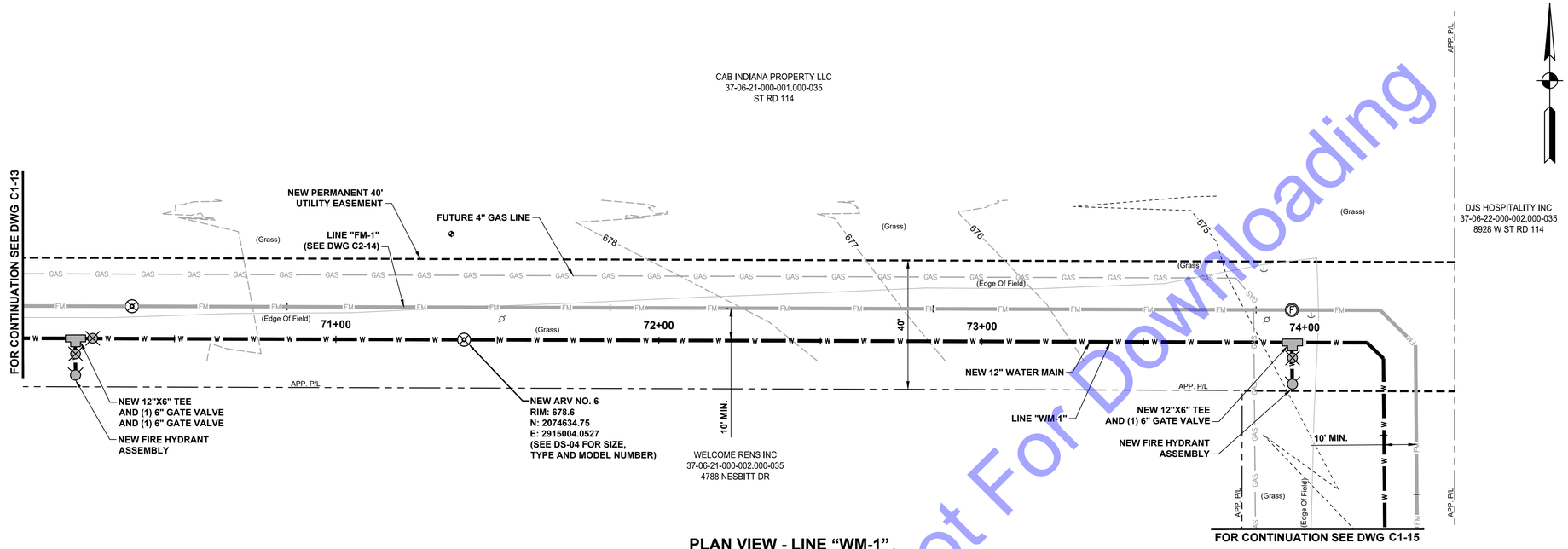
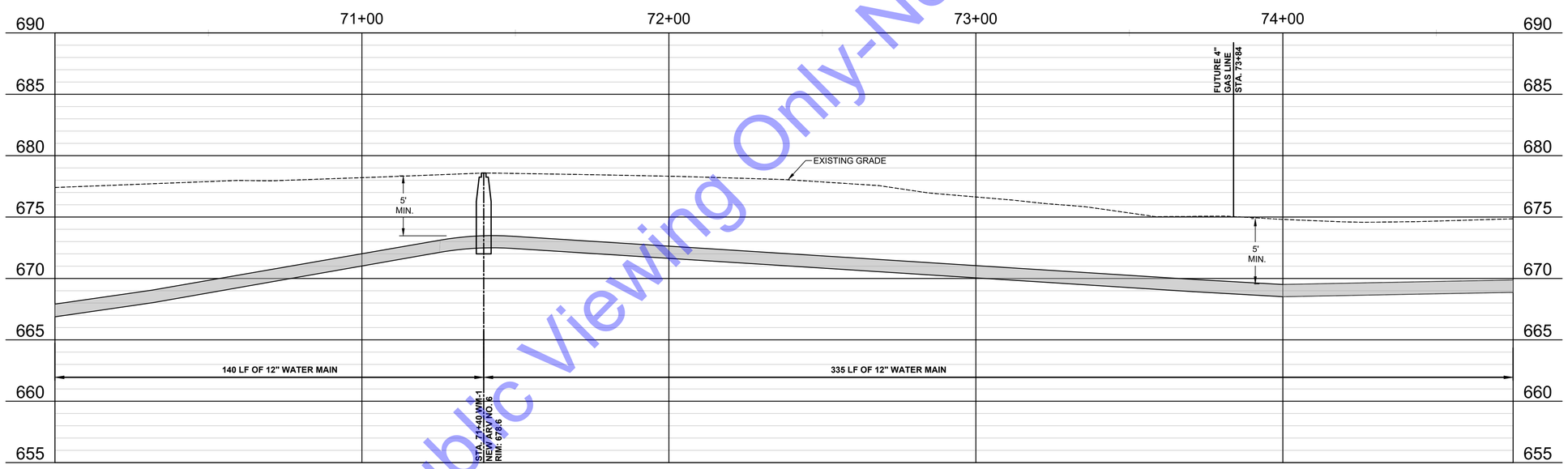


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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 "WM-1"

Drawing No: **C1-14**

Sheet: 32 OF 54

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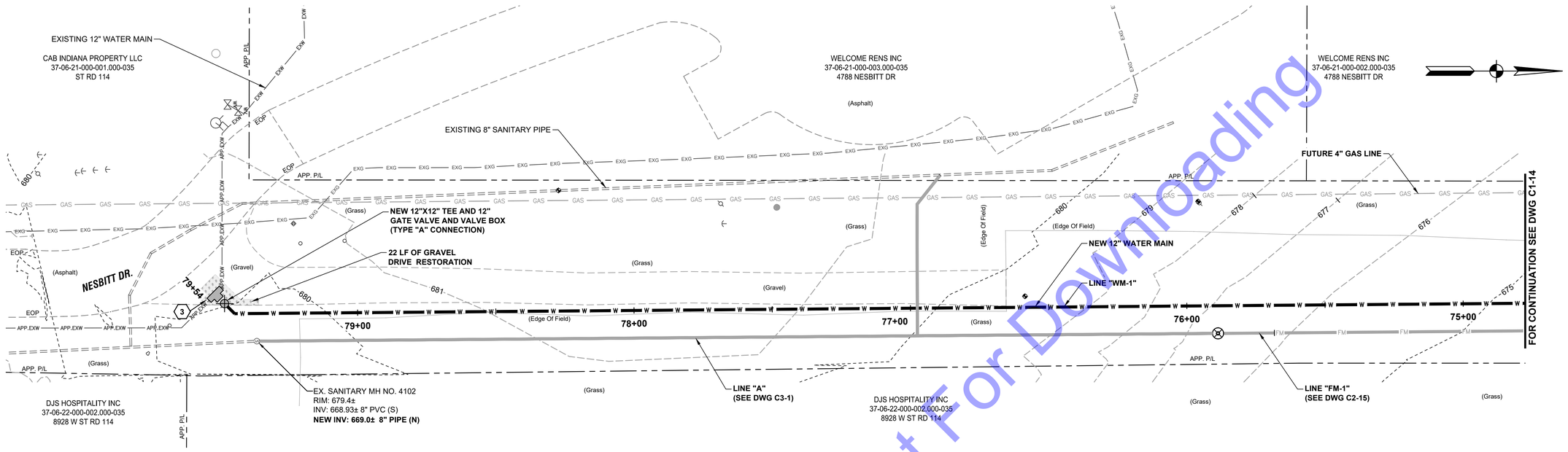
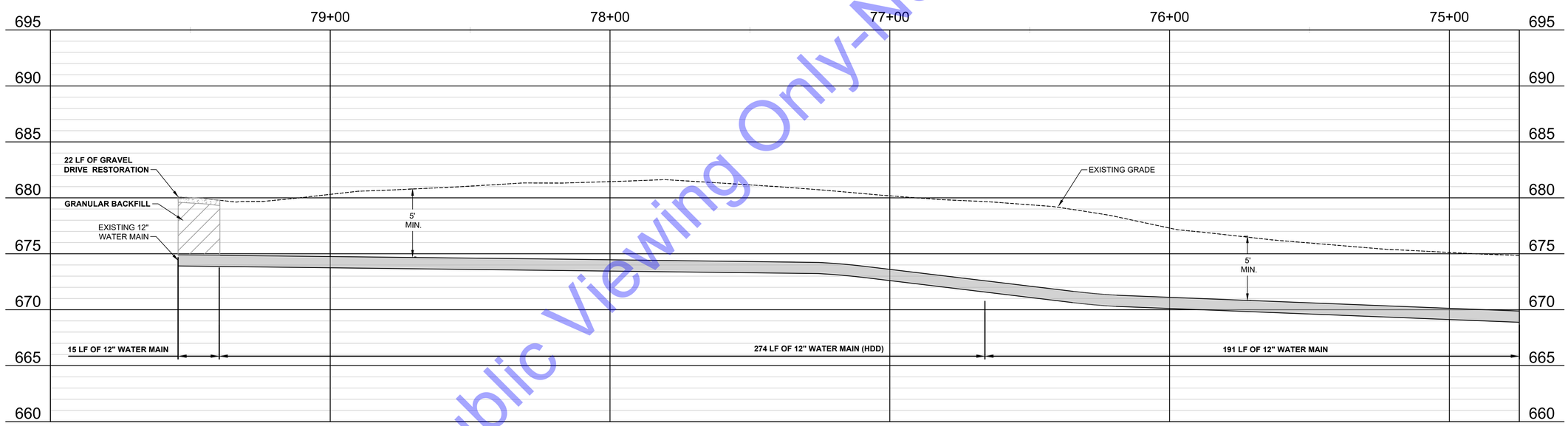


PLAN VIEW - LINE "WM-1"



PROFILE VIEW - LINE "WM-1"

DEMOLITION AND RESTORATION KEYNOTES:

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PLAN AND PROFILE VIEWS - LINE "WM-1"

Drawing No:
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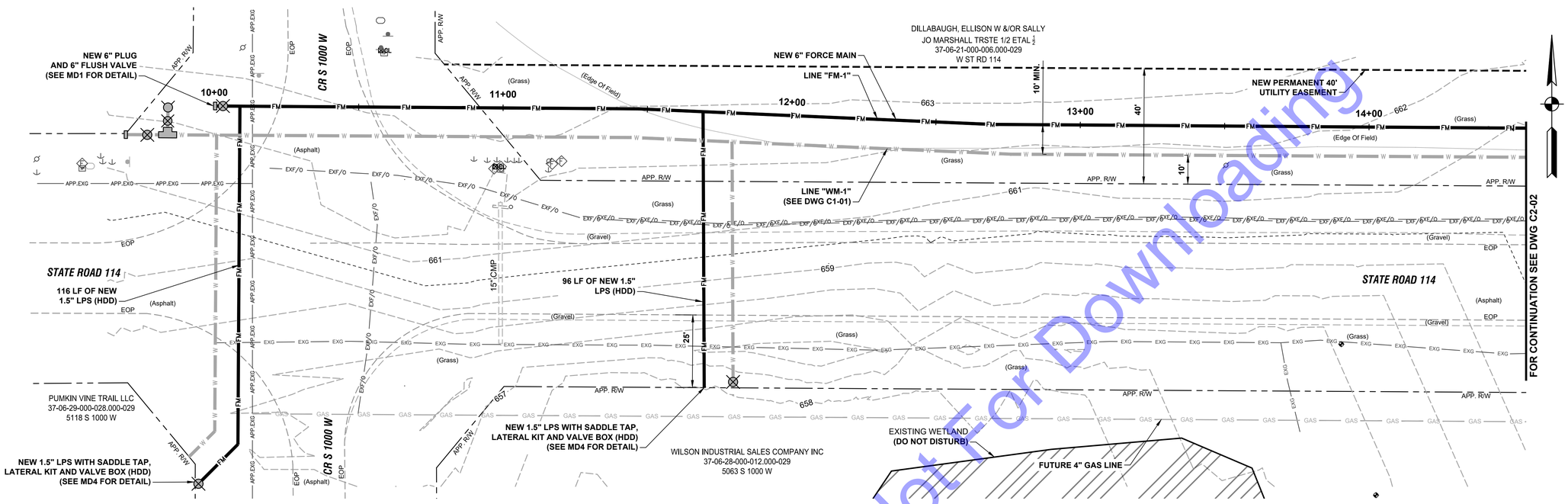

PLAN VIEW - LINE "FM-1"

PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

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PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No:
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Sheet: 34 OF 54

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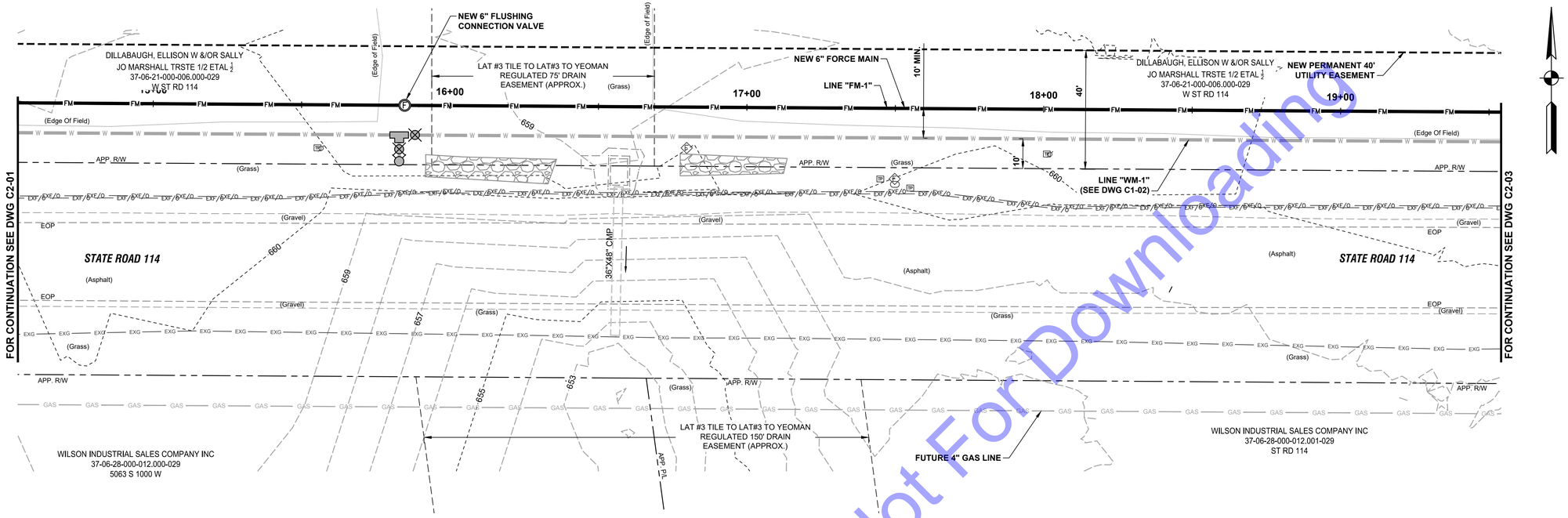
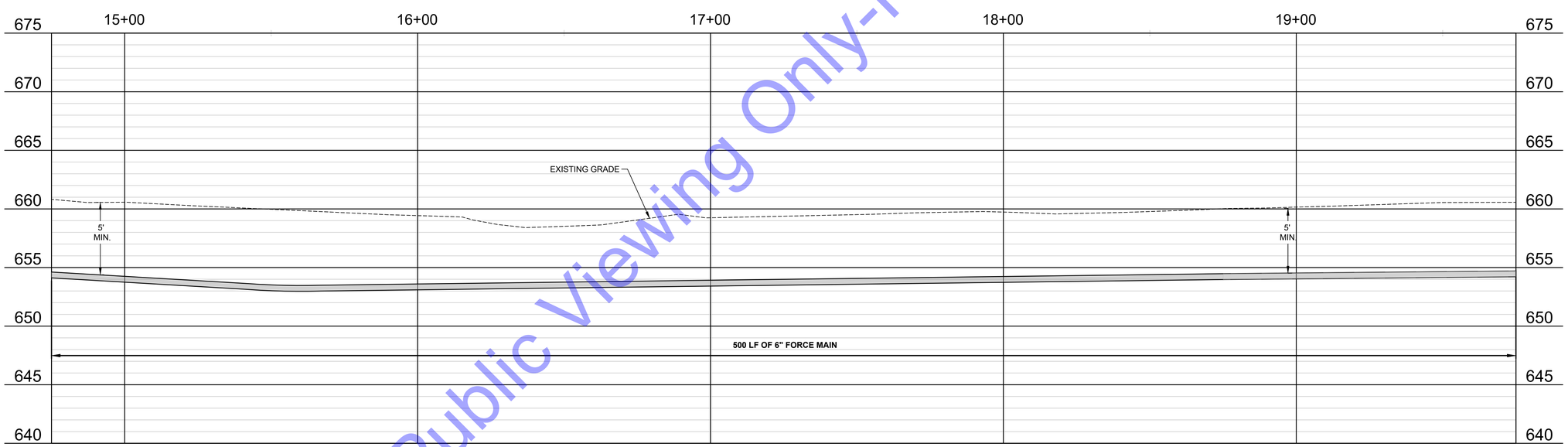


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

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Drawing No: **C2-02**

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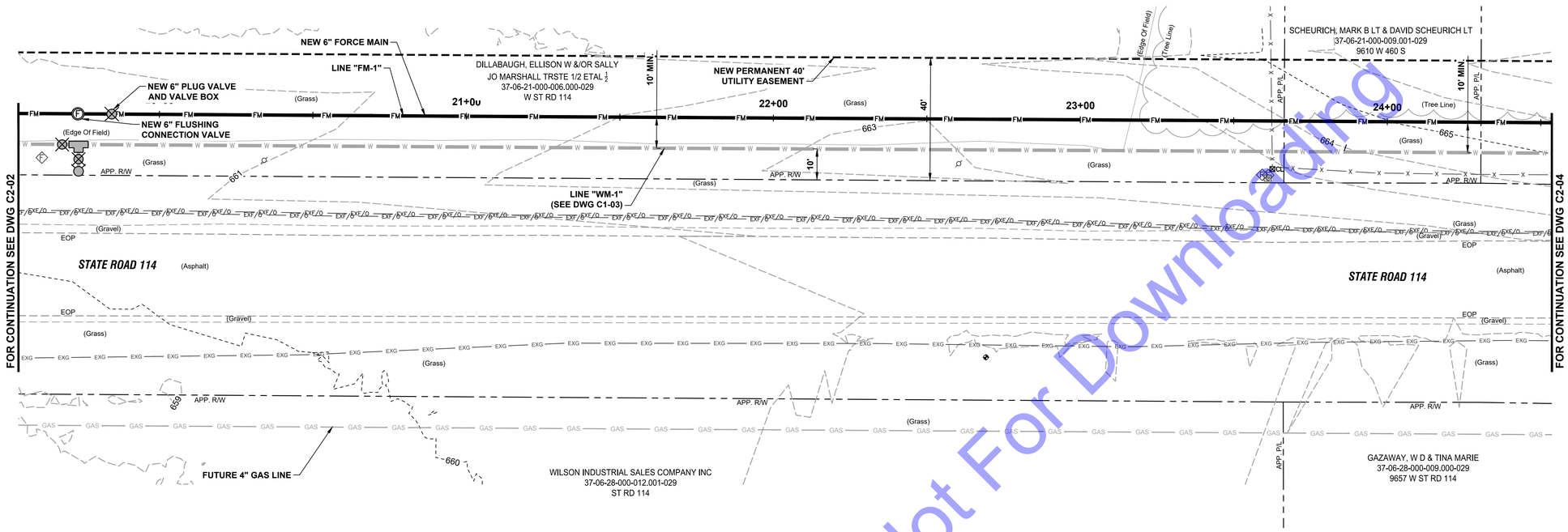
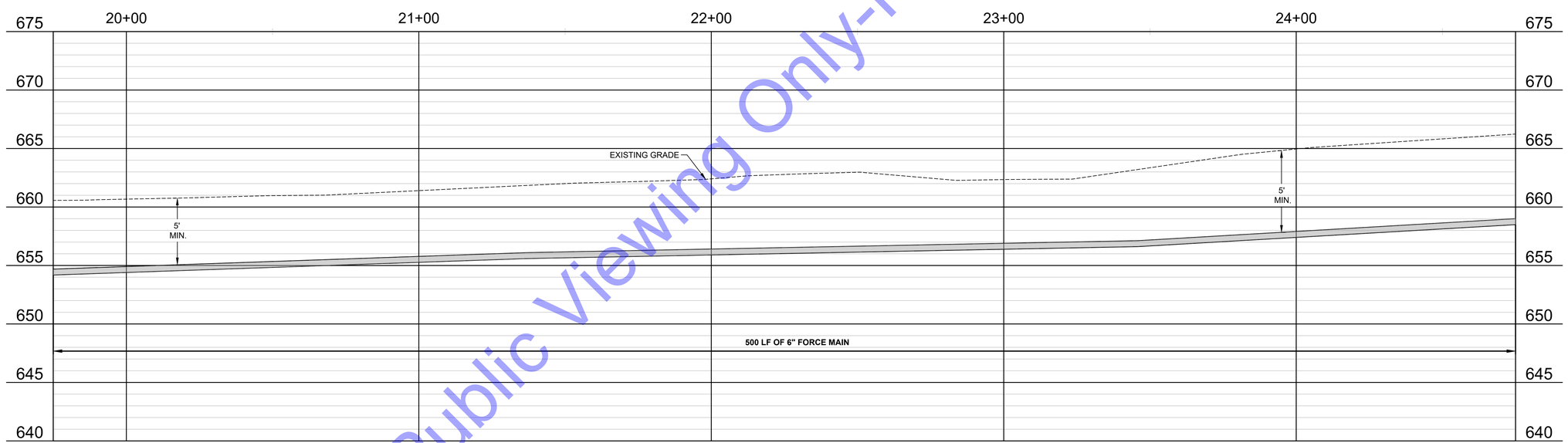


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No:
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Sheet: 36 OF 54

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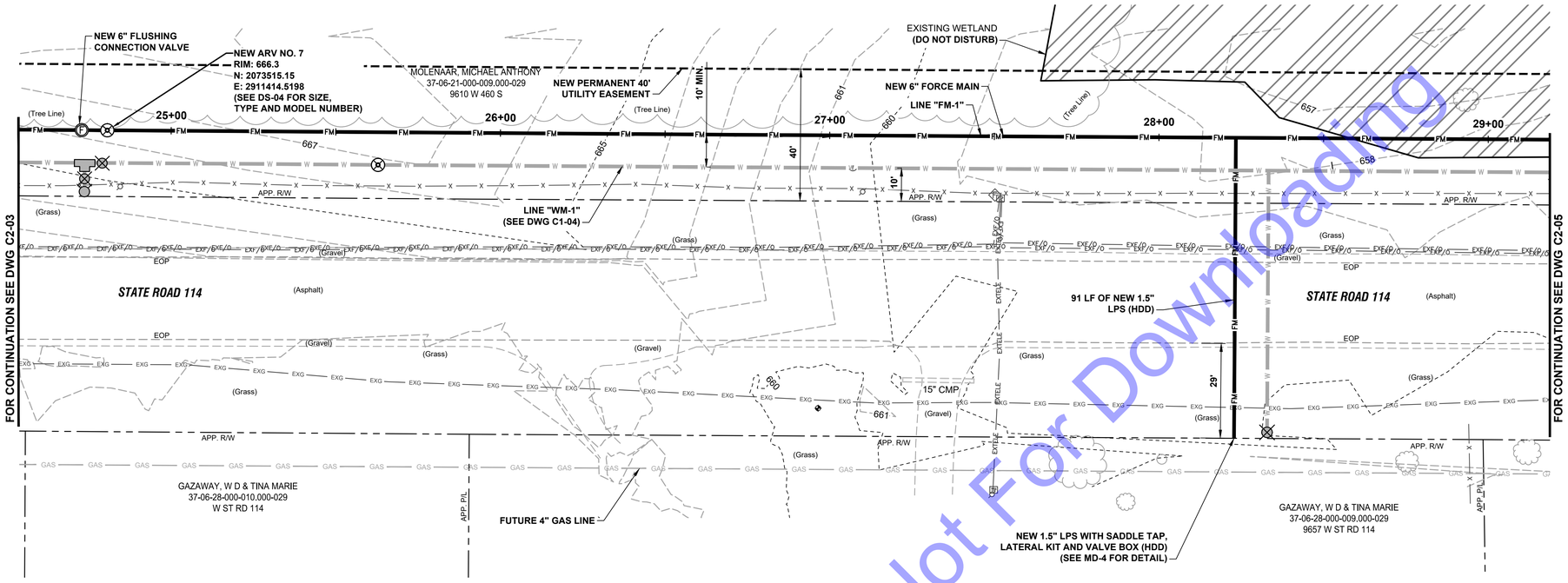

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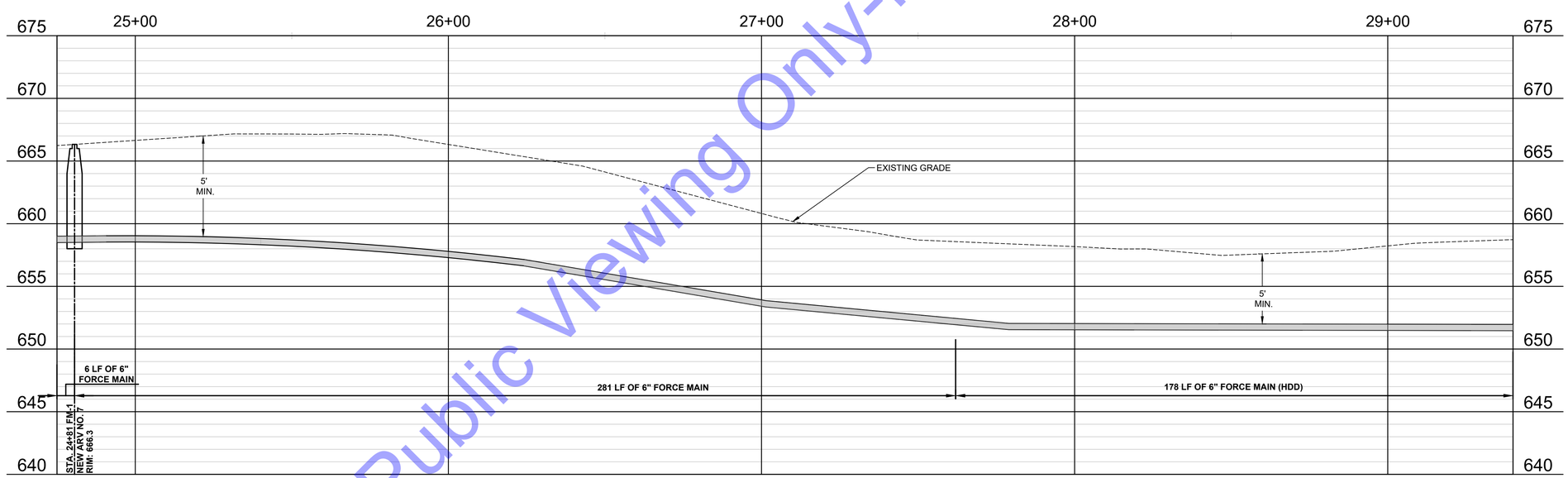

PROFILE VIEW - LINE "FM-1"

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No: **C2-04**

Sheet: 37 OF 54

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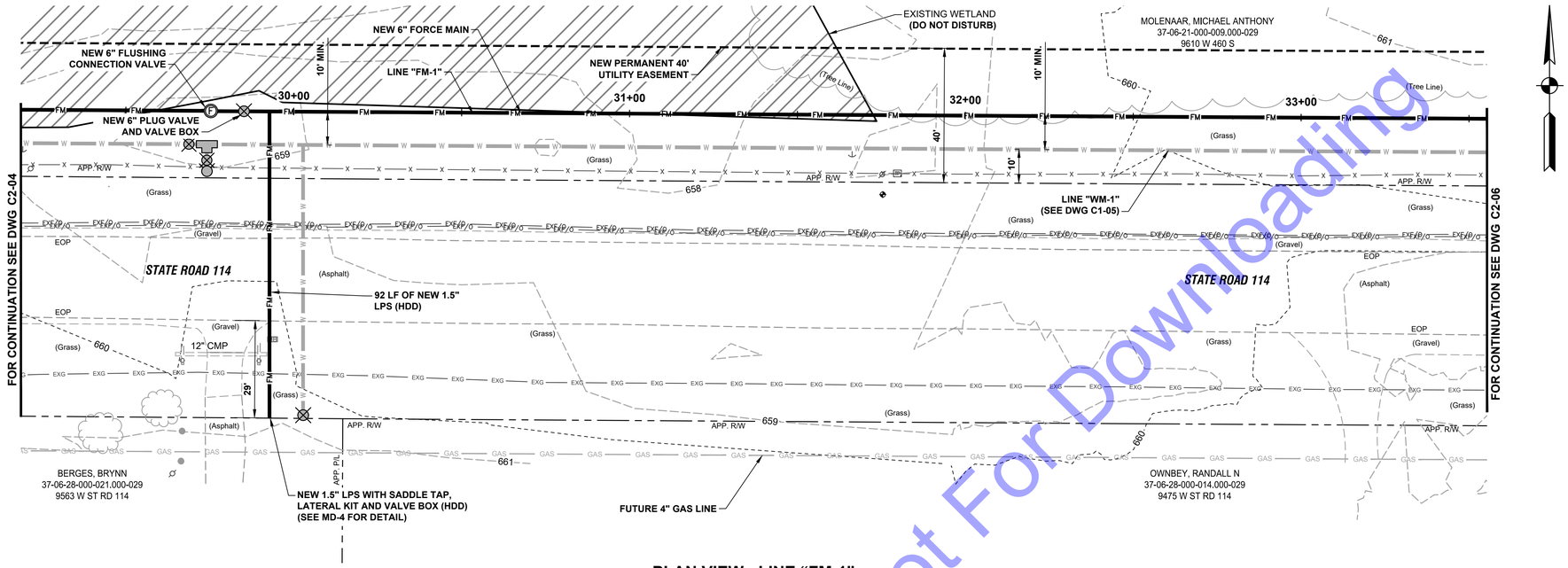
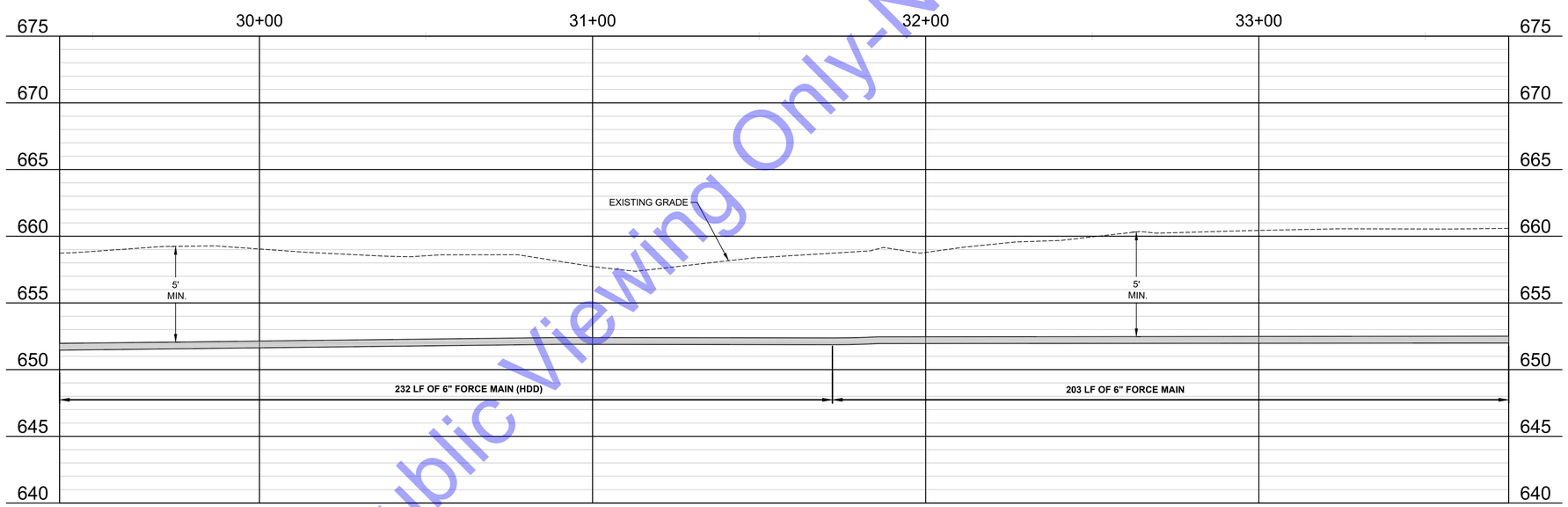


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No:
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Sheet: 38 OF 54

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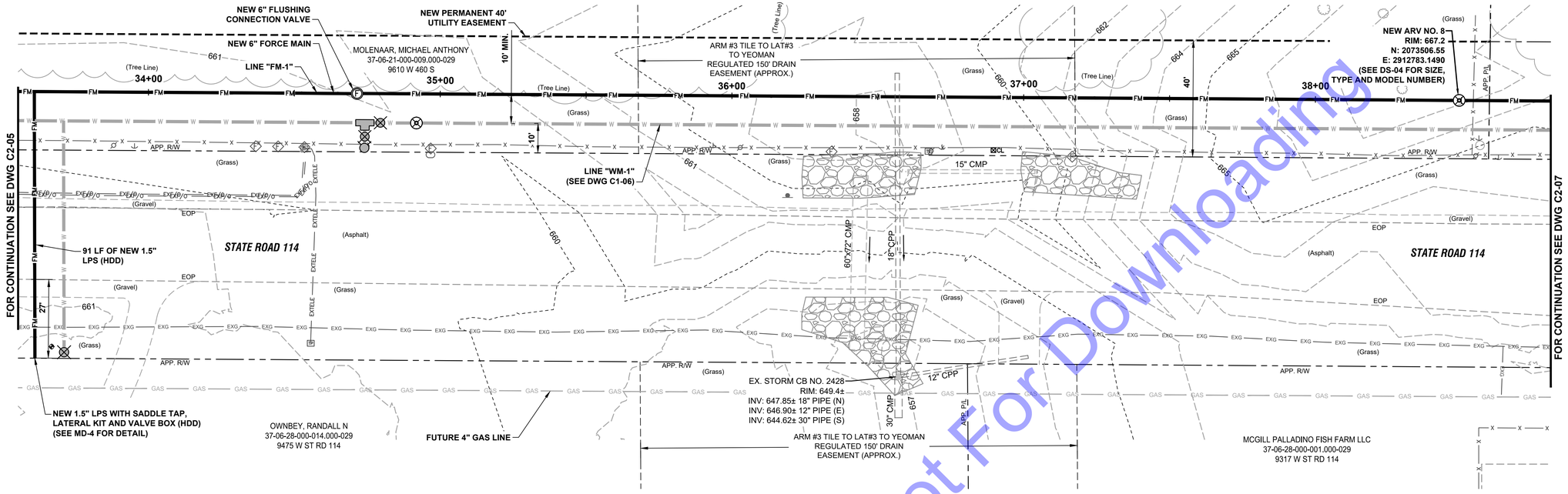
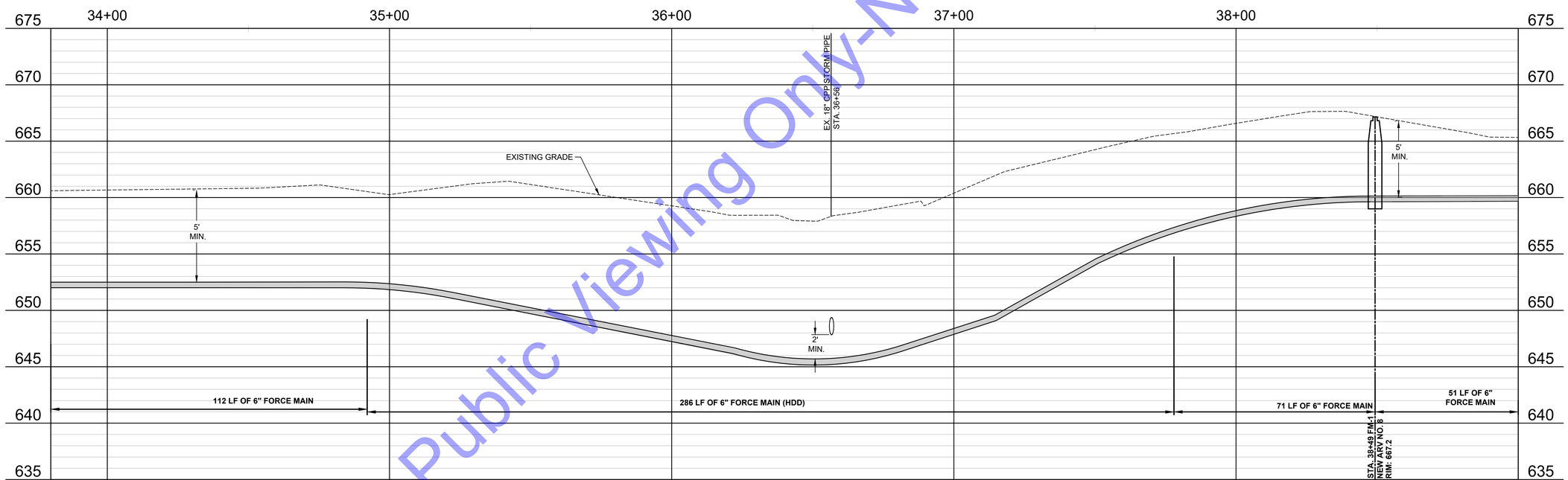


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. THE CONTRACTORS EXCAVATION, MATERIALS, AND EQUIPMENT SHALL NOT ENCROACH WITHIN 16 FEET OF PAVEMENT. IN THE EVENT THIS BECOMES NECESSARY FOR SHORT PERIODS OF TIME SUCH AS FOR A DELIVERY VEHICLE TO ENTER OR EXIT THE ROADWAY, A FLAGGER SHALL BE UTILIZED.

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

VERTICAL SCALE: 1" =5'
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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

CITY OF RENSSELAER
JASPER COUNTY, INDIANA

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No: **C2-06**

Sheet: 39 OF 54

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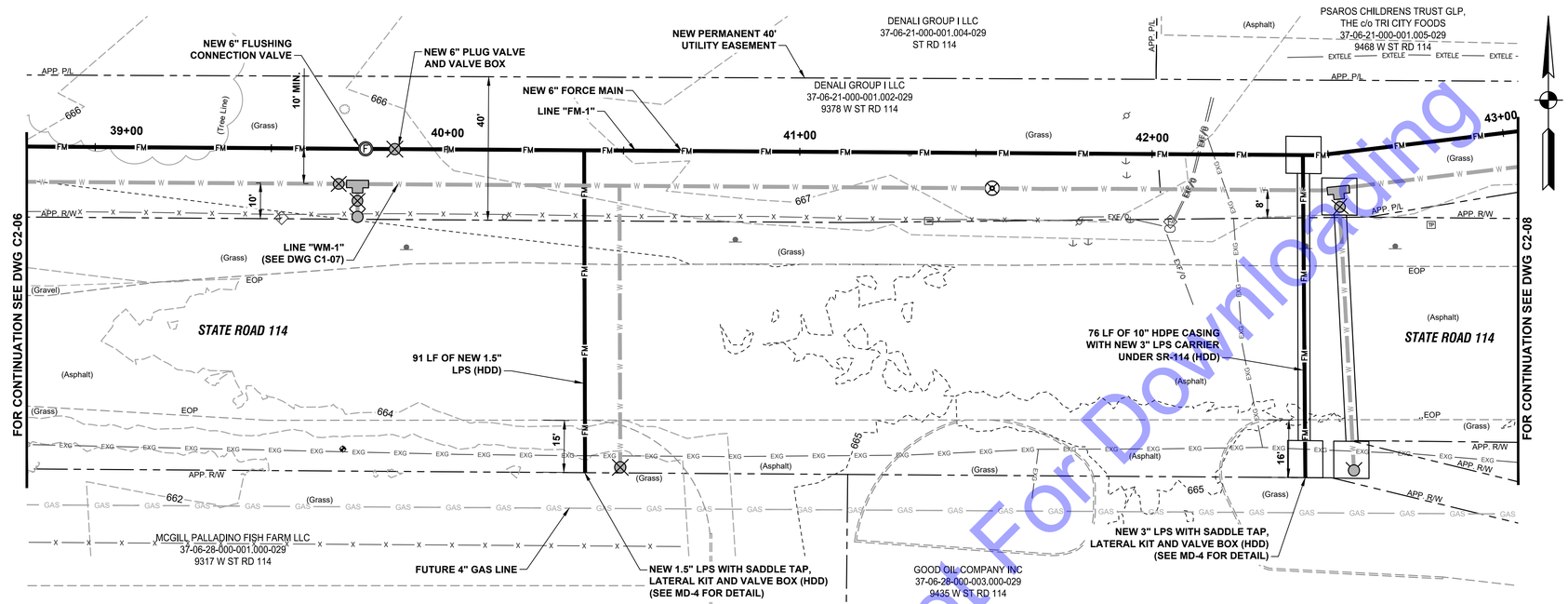
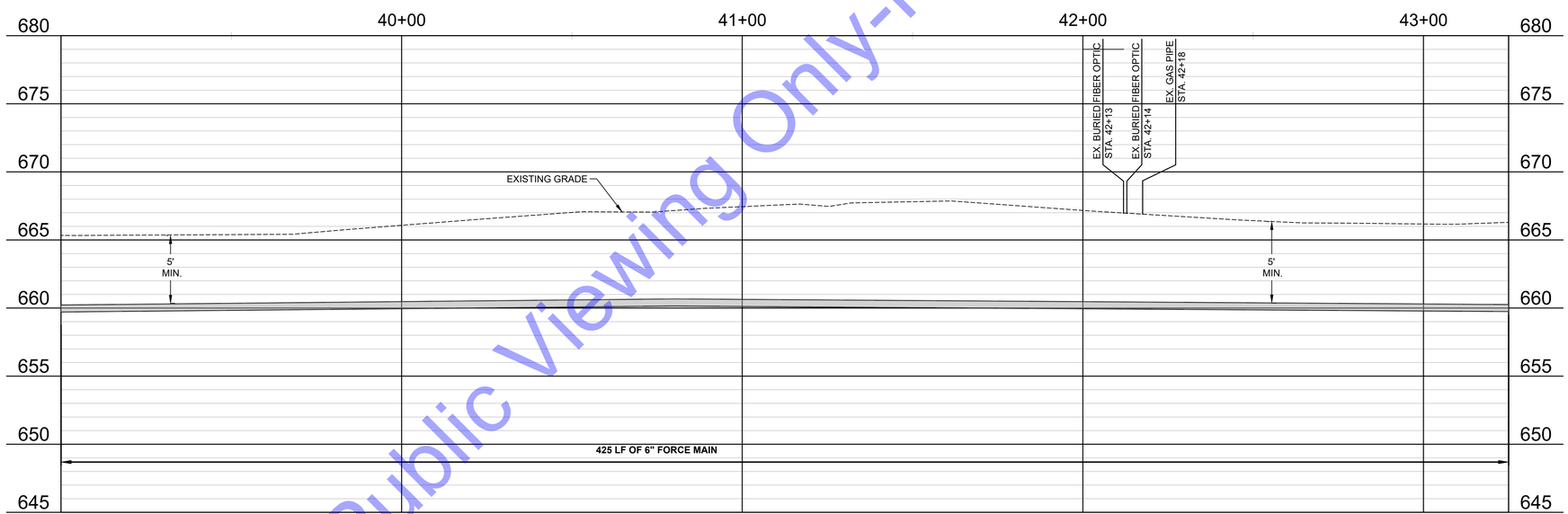


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
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GENERAL NOTES:

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No:
C2-07

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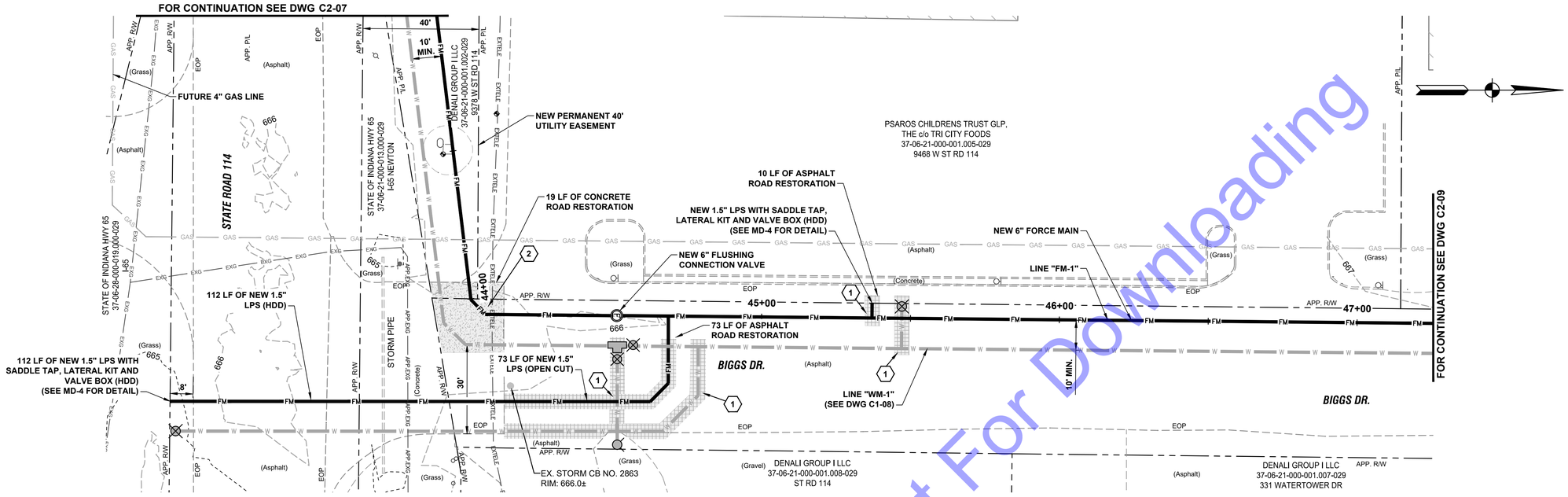
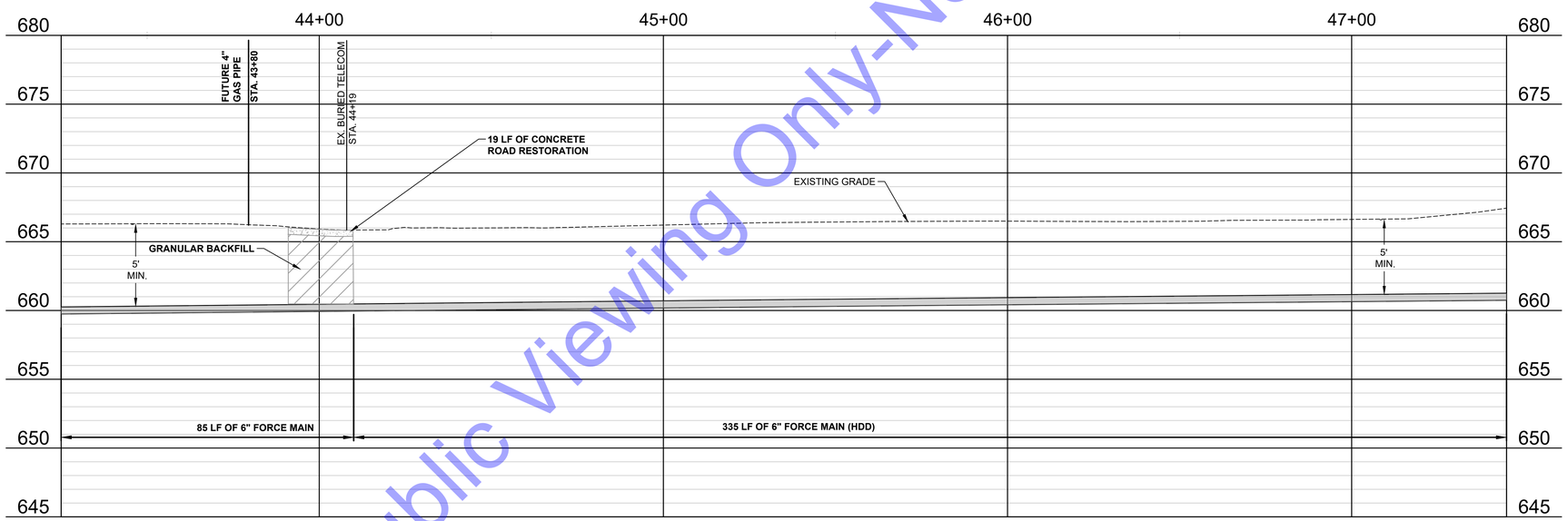


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

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Signature: Andrew C. Cochrane
Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No:
C2-08
Sheet: 41 OF 54

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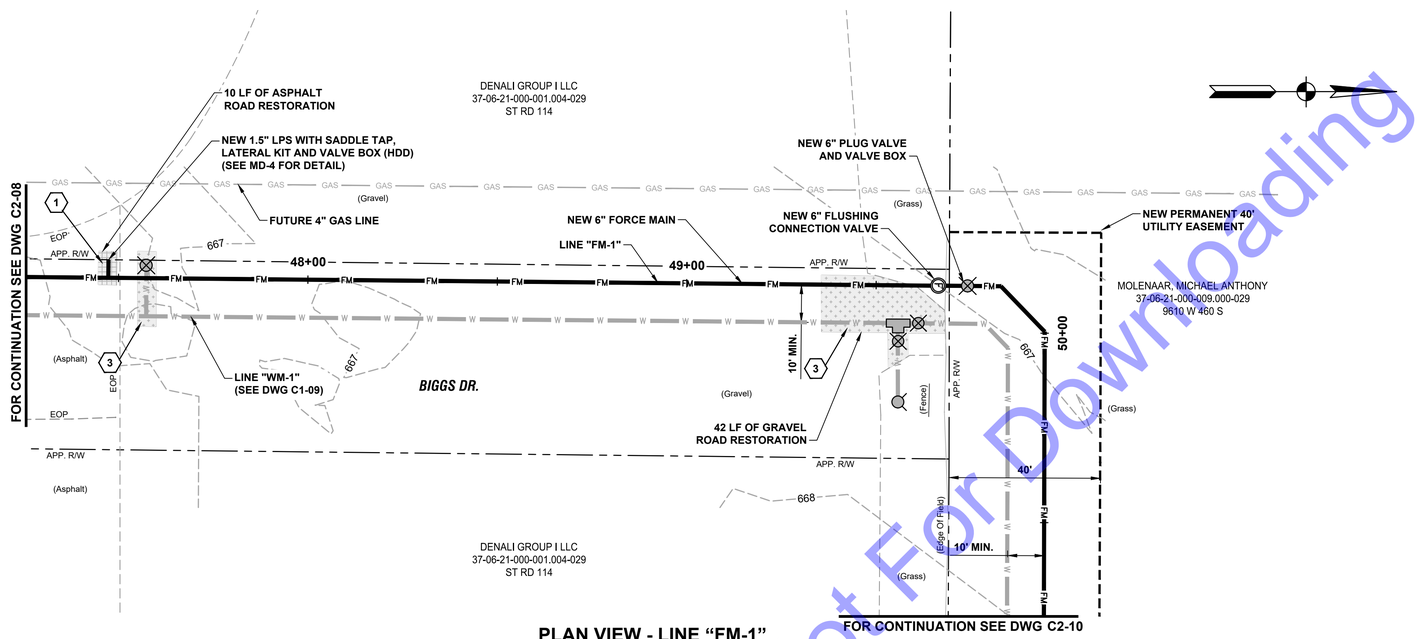
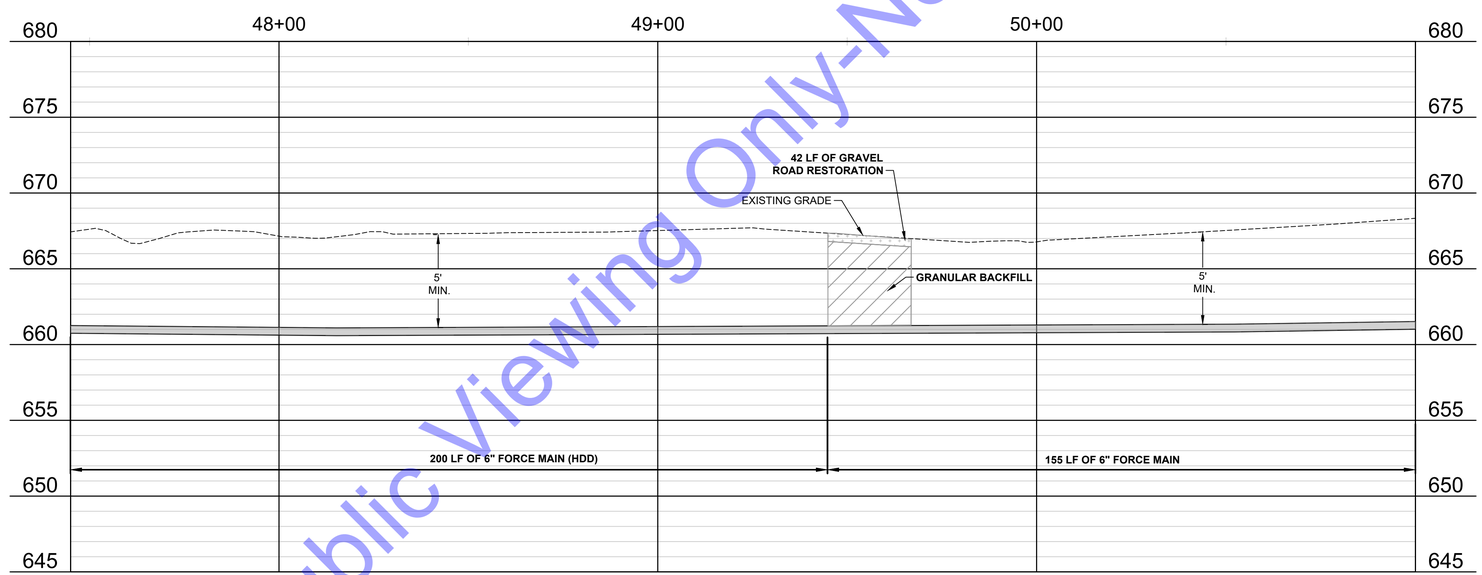


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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

VERTICAL SCALE: 1" =5'
0 5'

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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No: **C2-09**

Sheet: 42 OF 54

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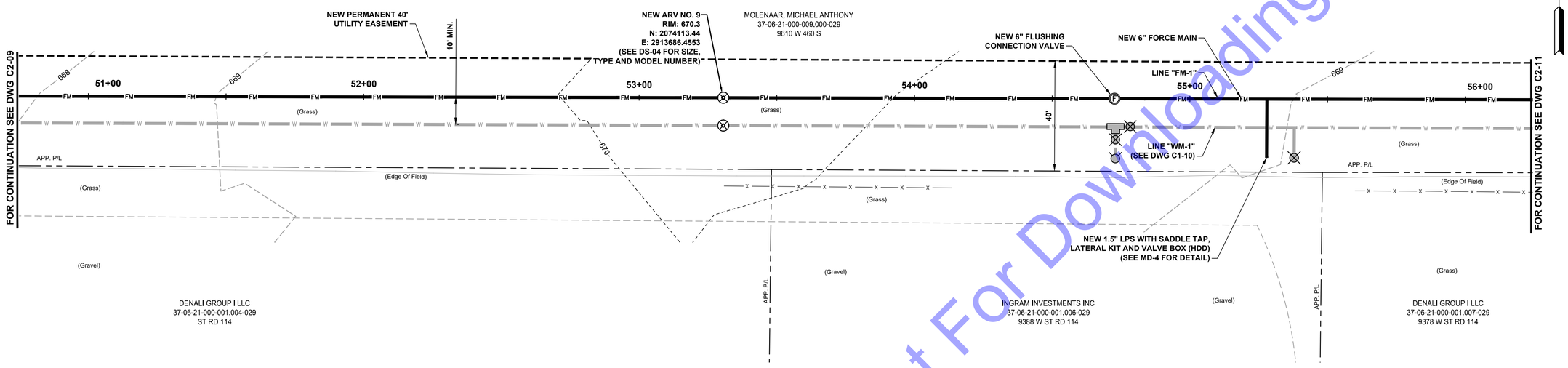
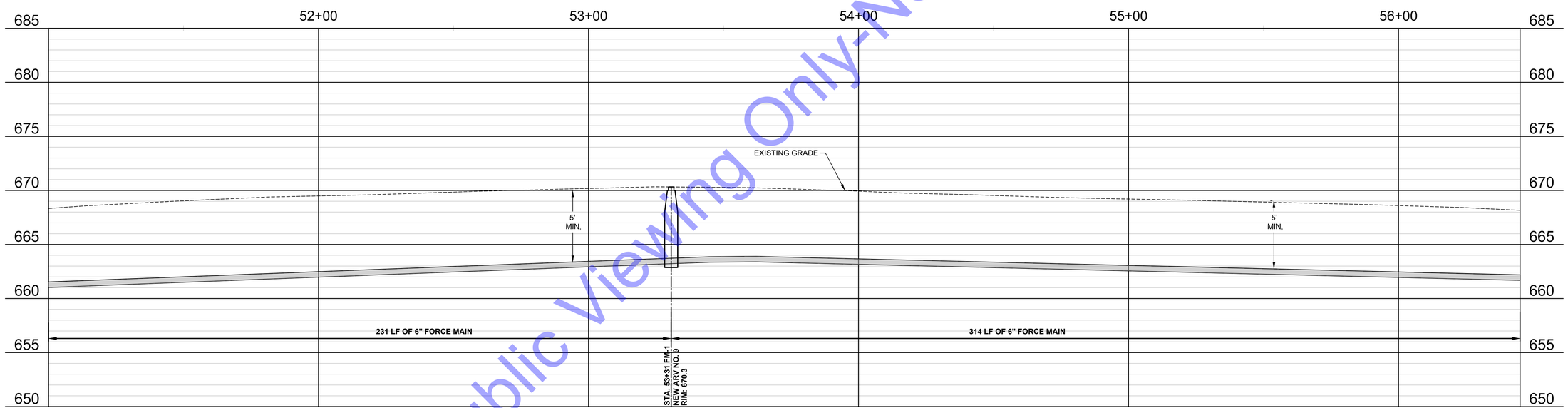


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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

VERTICAL SCALE: 1" =5'
0 5'

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REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No:
C2-10

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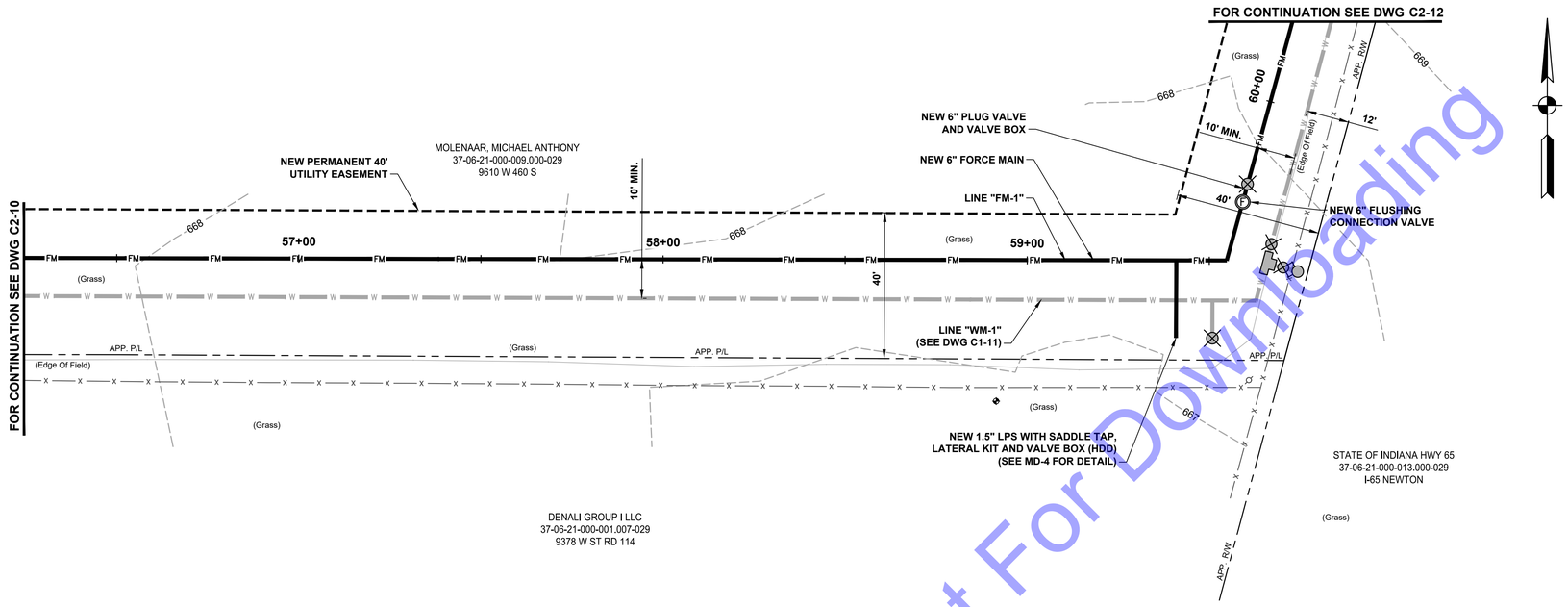
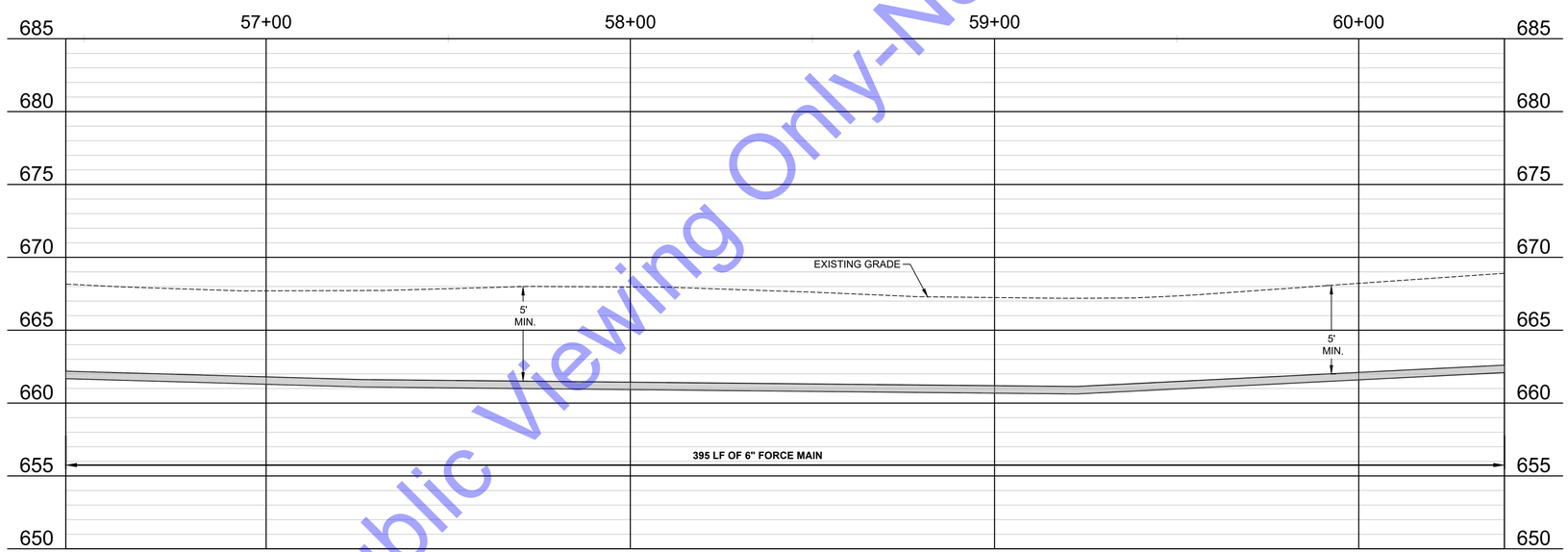


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

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Drawing No:
C2-11
Sheet: 44 OF 54

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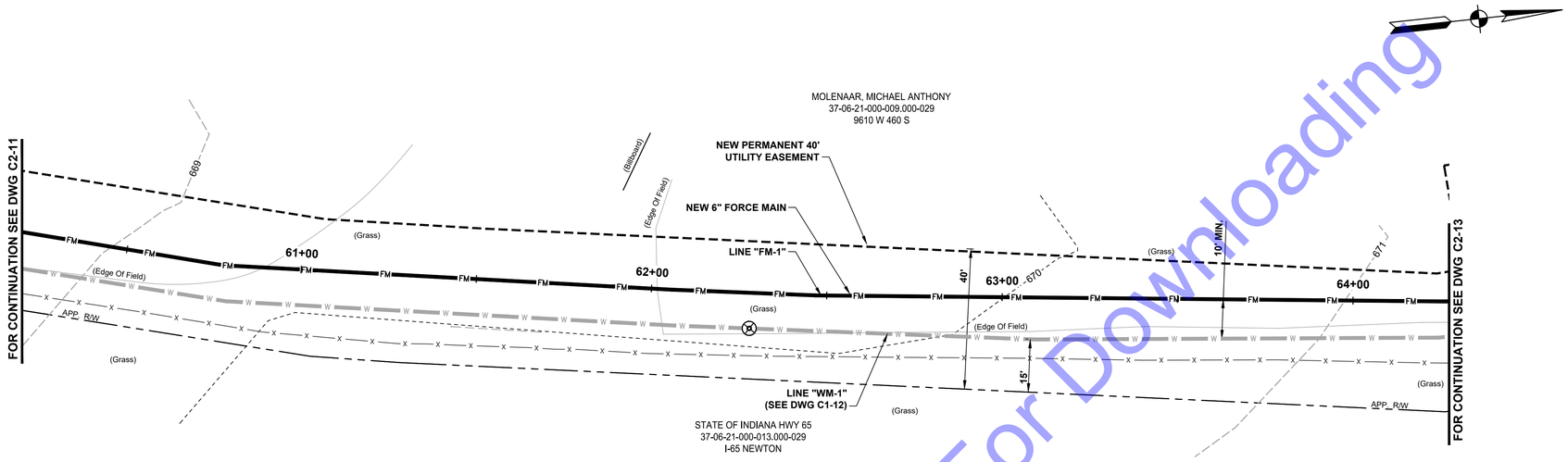
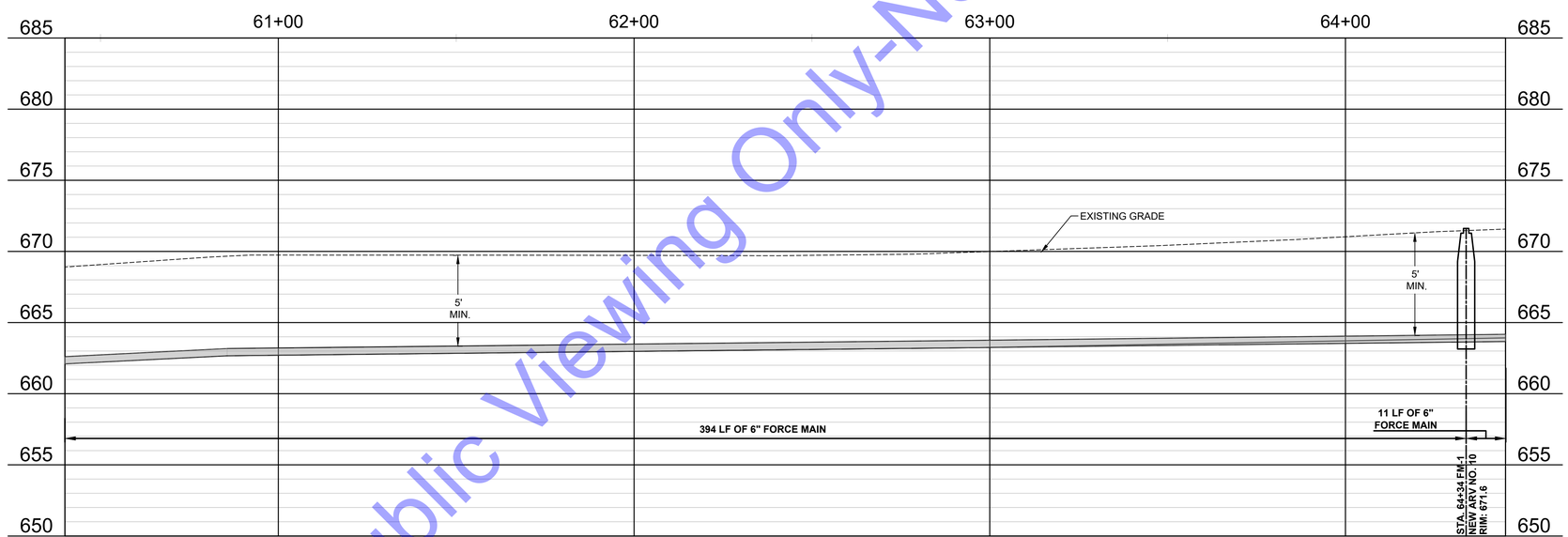


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

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Drawing No: **C2-12**

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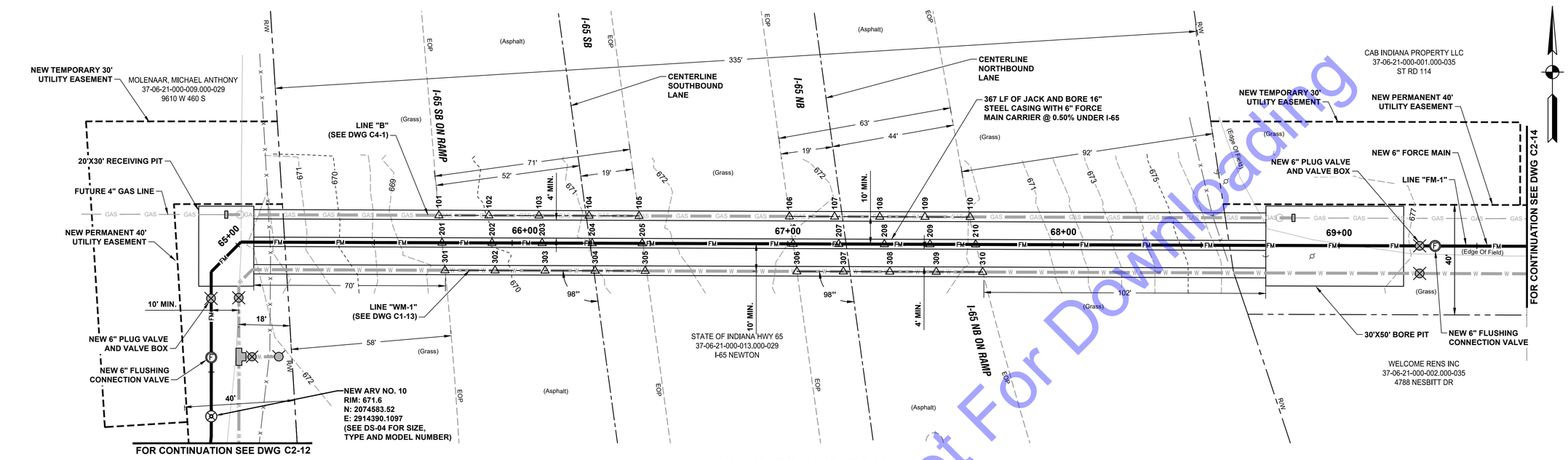
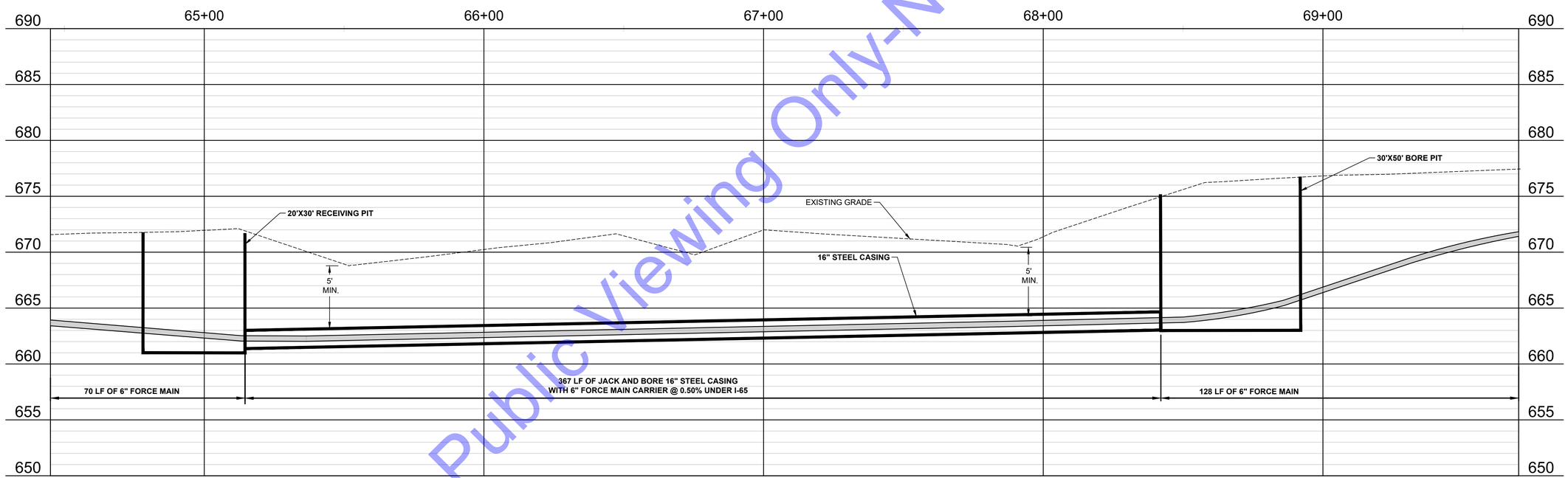


PLAN VIEW - LINE "FM-1"



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3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING STARTING AND FINAL ROAD ELEVATIONS OF SETTLEMENT MONITORING POINTS 201-210 PRIOR TO AND AFTER CONSTRUCTION OF SANITARY FORCE MAIN CROSSING IN ACCORDANCE WITH INDOT PERMIT. FINAL ELEVATIONS SHALL ONLY BE TAKEN AT LEAST 6 MONTHS AFTER INSTALLATION
2. SETTLEMENT MONITORING POINTS SHALL BE MARKED WITH MAGNETIC NAILS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. EXISTING FIELD TILES (4" AND 6" CLAY PIPE) IN THIS AREA RUNNING NORTH AND SOUTH. CONTRACTOR TO REPAIR ANY DAMAGED FIELD TILES WITH PVC OF MATCHING SIZE.

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

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SOUTH BEND, IN.

ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 11-12-24 Date

CITY OF RENSSELAER
JASPER COUNTY, INDIANA

I-65 WATER AND SEWER IMPROVEMENTS

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No: C2-13

Sheet: 46 OF 54

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHAREDIN CLIENTS M-Z\RENSSELAER\D. J24115 I-65 WATER AND SEWER IMPROVEMENTS\06 CADD\ CURRENT FILES\1 DRAWINGS\05-PLAN AND PROFILE DRAWINGS-FORCE MAIN.DWG
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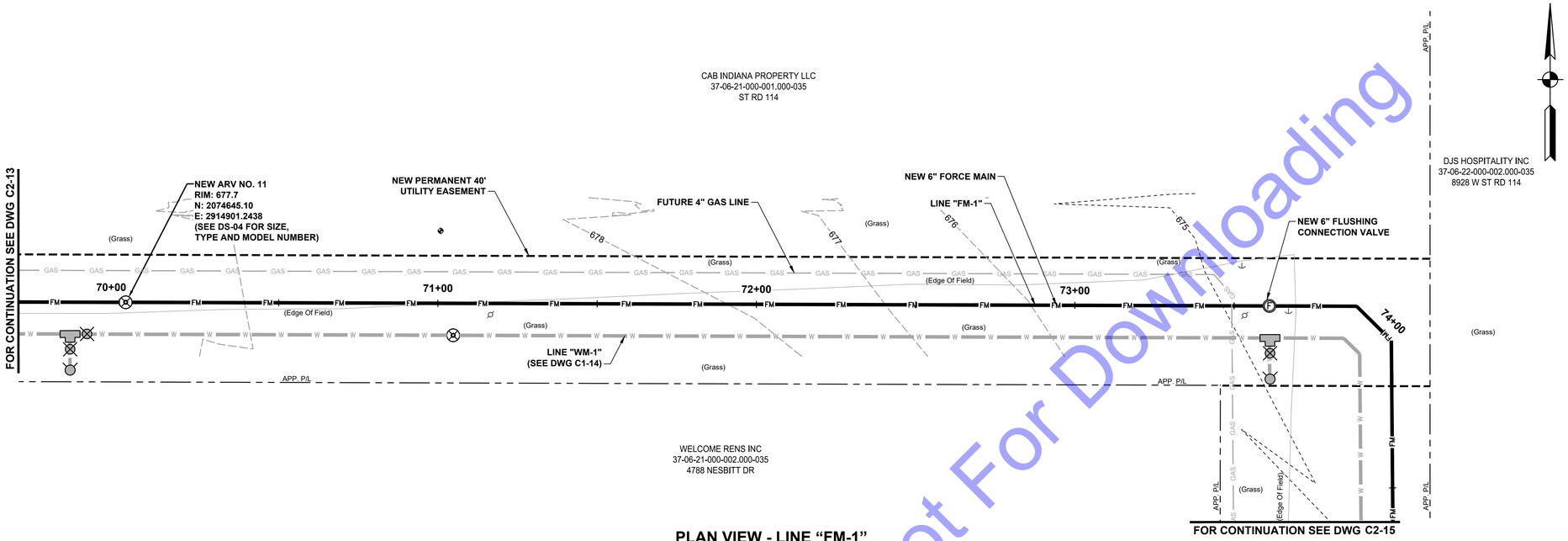
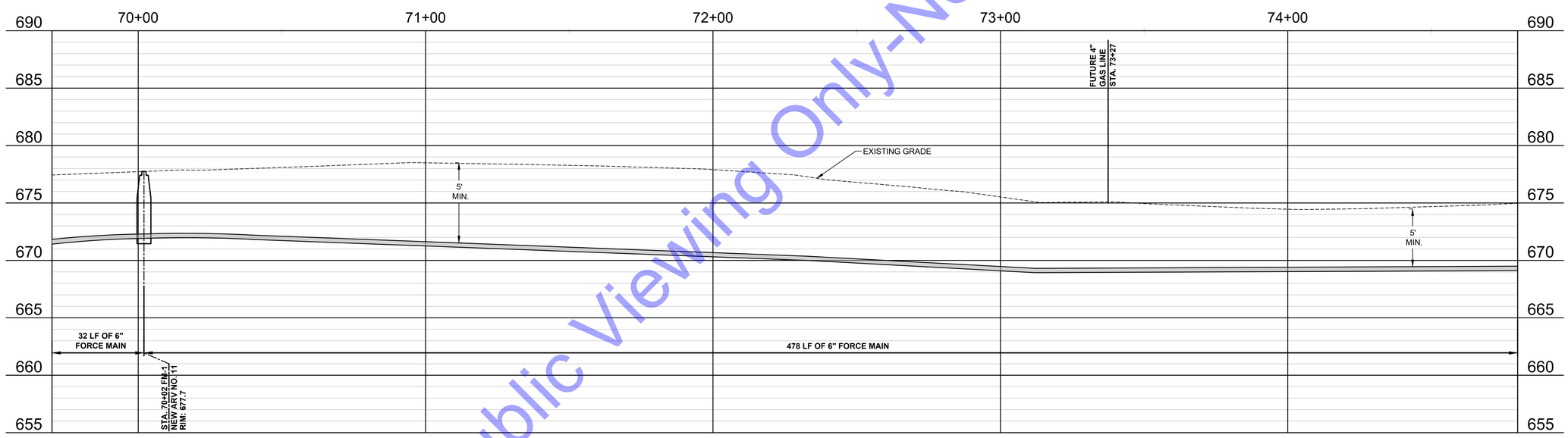


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
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GENERAL NOTES:

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PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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JASPER COUNTY, INDIANA

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No:
C2-14
Sheet: 47 OF 54

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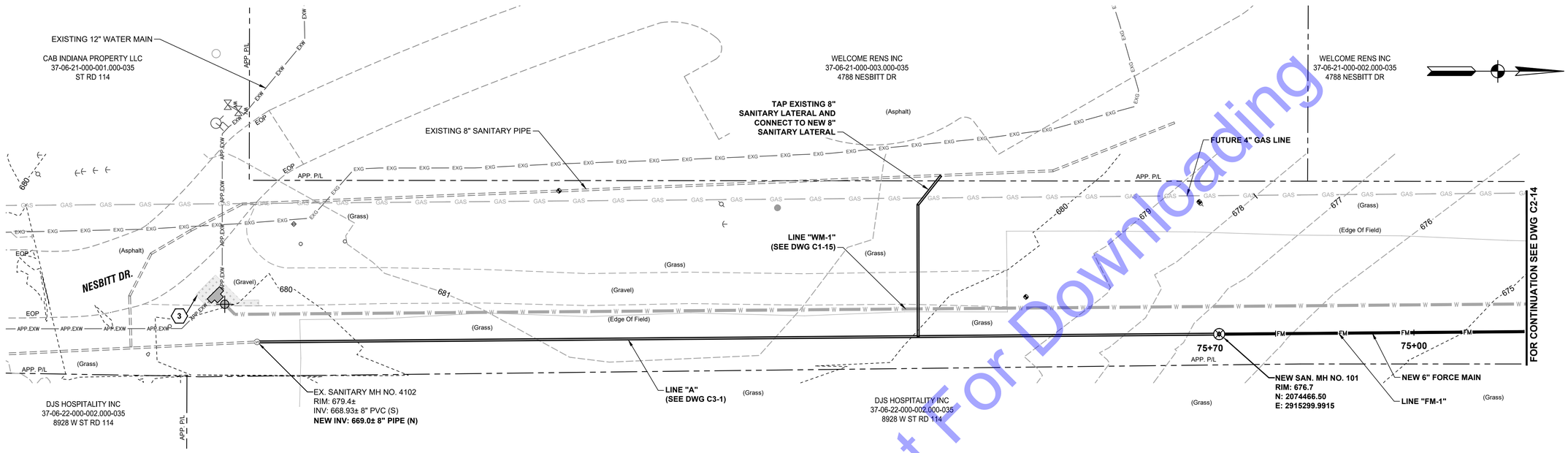
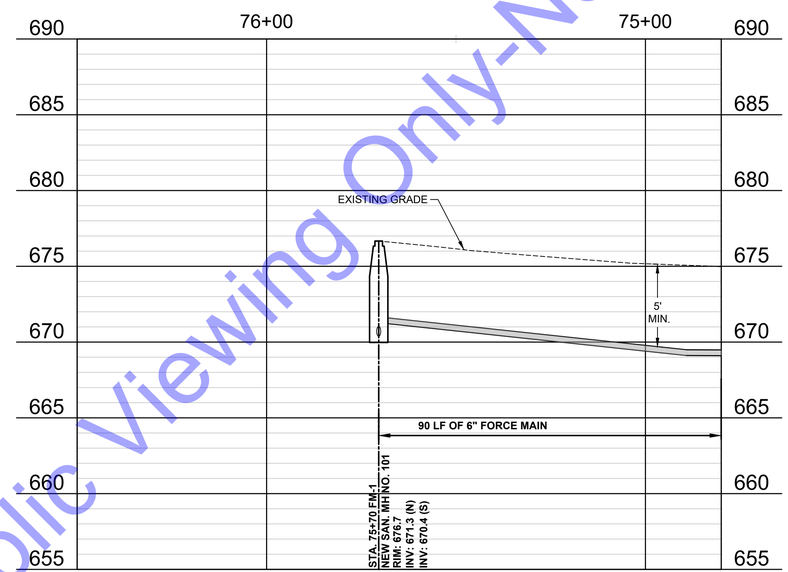


PLAN VIEW - LINE "FM-1"



PROFILE VIEW - LINE "FM-1"

DEMOLITION AND RESTORATION KEYNOTES:

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PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "FM-1"

Drawing No: **C2-15**

Sheet: 48 OF 54

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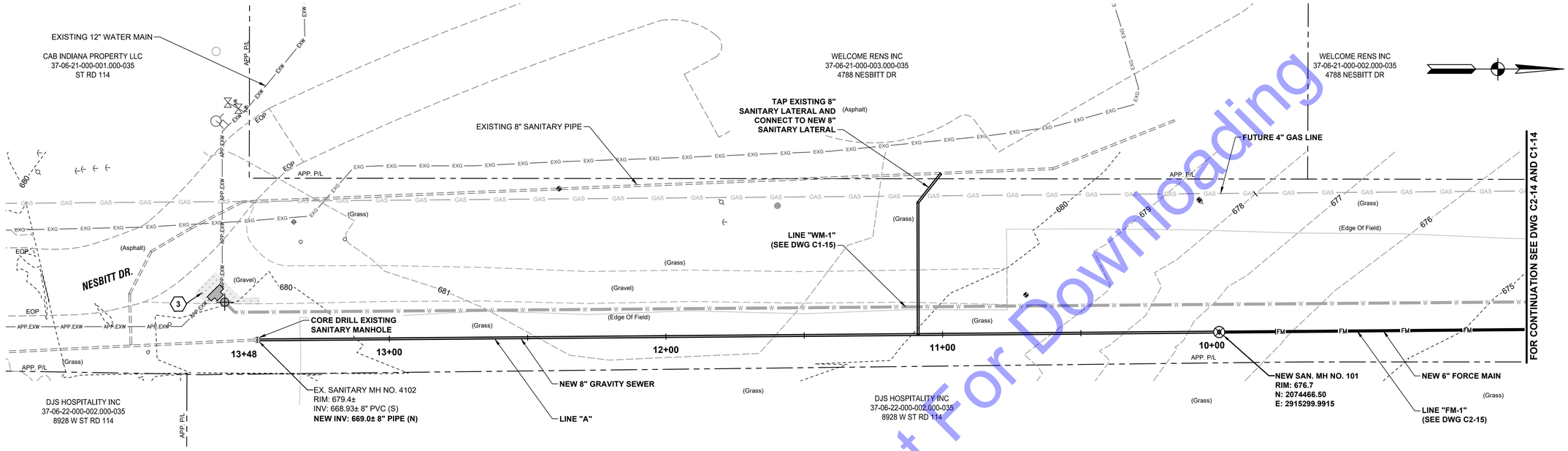
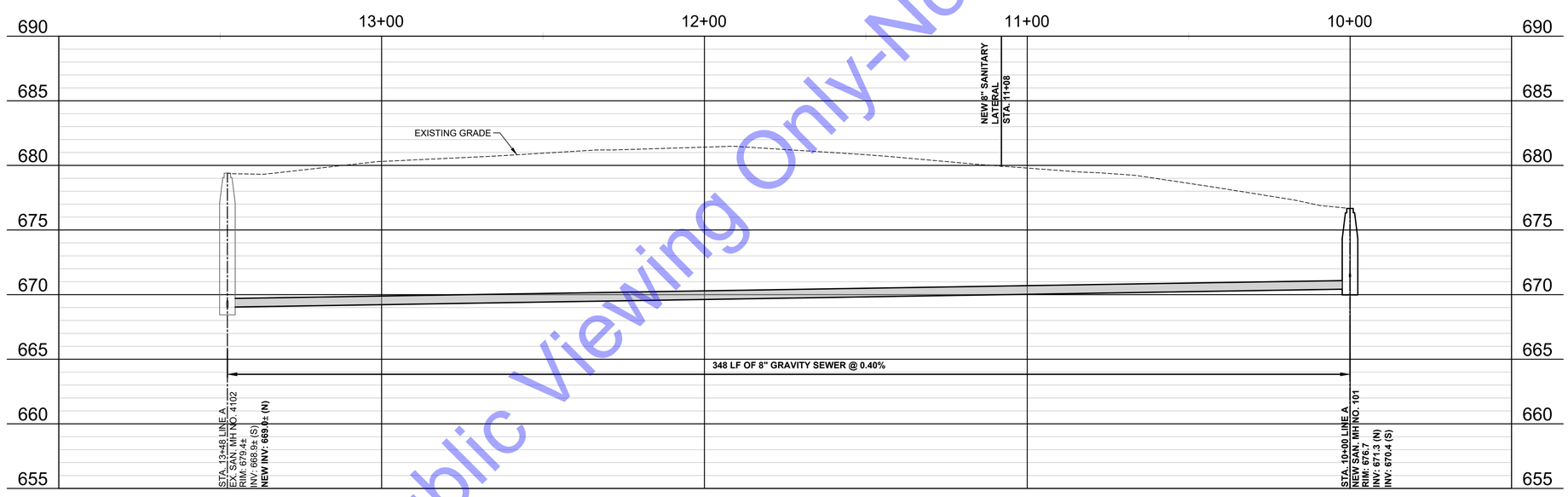


PLAN VIEW - LINE "A"



PROFILE VIEW - LINE "A"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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PLAN AND PROFILE VIEWS - LINE "A"

Drawing No:
C3-1
Sheet: 49 OF 54

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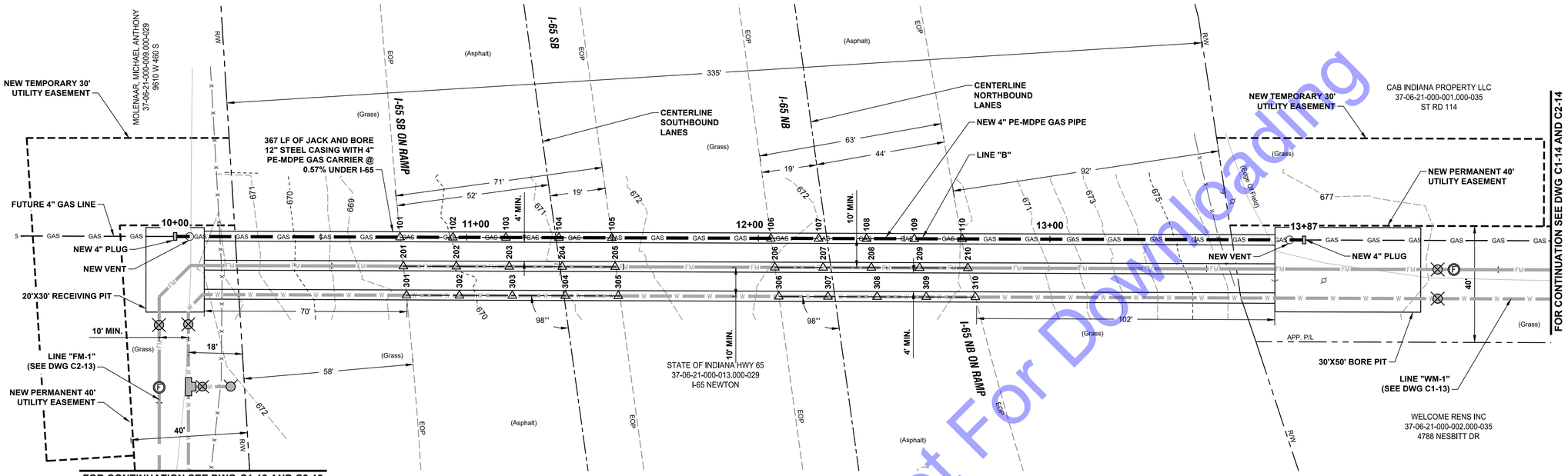
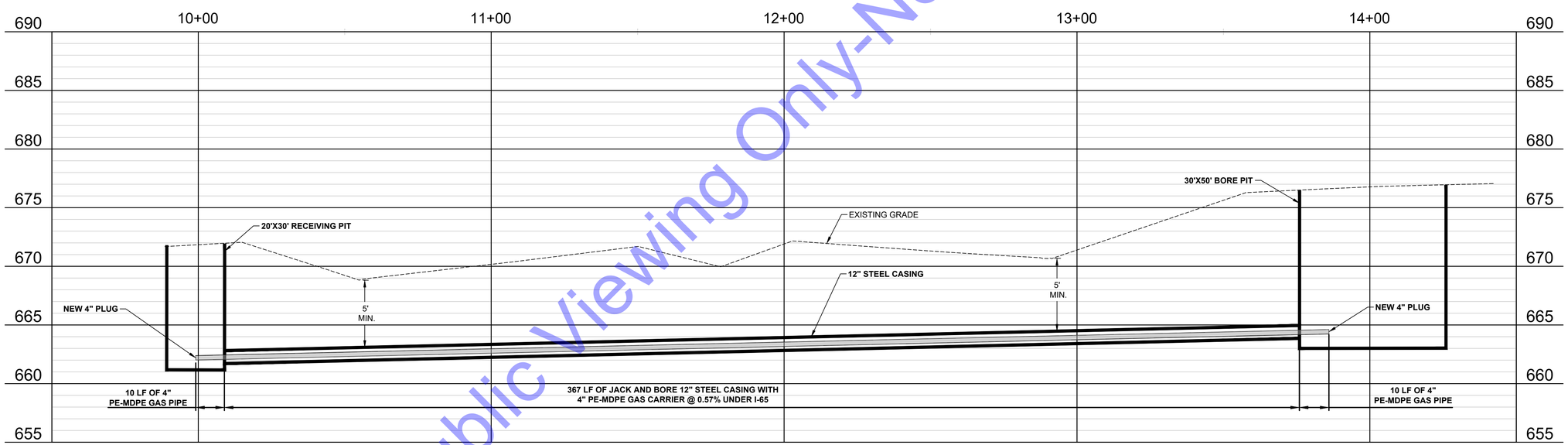


PLAN VIEW - LINE "B"



PROFILE VIEW - LINE "B"

DEMOLITION AND RESTORATION KEYNOTES:

1. REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
2. REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
3. REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING STARTING AND FINAL ROAD ELEVATIONS OF SETTLEMENT MONITORING POINTS 101-110 PRIOR TO AND AFTER CONSTRUCTION OF GAS MAIN CROSSING IN ACCORDANCE WITH INDOT PERMIT. FINAL ELEVATIONS SHALL ONLY BE TAKEN AT LEAST 6 MONTHS AFTER INSTALLATION
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PLAN AND PROFILE VIEWS - LINE "B"

Drawing No: **C4-1**

Sheet: 50 OF 54

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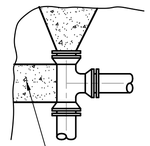
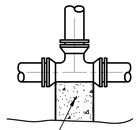


DETAIL A



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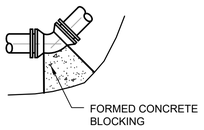
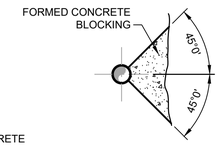


DETAIL C



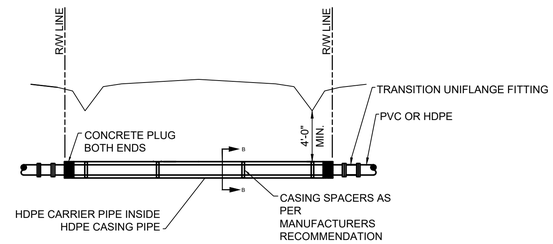
TYP. PROFILE

TABLE OF DIMENSIONS FOR CONCRETE BLOCKING																								
SIZE	TEE				PLUG					90° BEND				45° BEND				22° BEND				11° BEND			
PIPE	L	T	W	D	L	T	W	D	s	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	D
4"	18"	12"	12"	8"	18"	12"	18"	18"	2"	24"	12"	24"	8"	18"	8"	12"	8"	18"	8"	12"	8"	15"	8"	12"	6"
6"	18"	12"	12"	8"	18"	12"	18"	18"	2"	24"	15"	24"	8"	18"	10"	12"	8"	18"	10"	12"	8"	18"	10"	18"	6"
8"	30"	12"	24"	8"	30"	18"	30"	24"	4"	36"	16"	30"	8"	24"	12"	18"	8"	24"	18"	18"	8"	24"	12"	18"	8"
10"	36"	18"	30"	10"	36"	18"	36"	24"	4"	48"	20"	36"	10"	30"	14"	24"	10"	30"	14"	24"	10"	24"	14"	18"	8"
12"	48"	18"	36"	10"	42"	18"	42"	24"	4"	54"	24"	48"	10"	36"	16"	30"	10"	36"	16"	30"	10"	30"	16"	24"	10"
14"	54"	24"	42"	12"	48"	18"	48"	30"	6"	60"	28"	60"	12"	42"	16"	42"	12"	42"	16"	42"	12"	33"	16"	27"	12"
16"	60"	24"	48"	12"	54"	18"	54"	30"	6"	66"	32"	63"	12"	48"	18"	48"	12"	48"	18"	48"	12"	36"	18"	30"	12"
18"	66"	30"	60"	14"	60"	24"	60"	36"	6"	66"	36"	66"	14"	54"	18"	54"	14"	54"	18"	54"	14"	39"	18"	33"	14"
20"	72"	30"	60"	14"	66"	24"	66"	36"	8"	72"	40"	69"	14"	60"	20"	60"	14"	60"	20"	60"	14"	42"	20"	36"	14"
24"	84"	36"	72"	18"	78"	30"	78"	42"	8"	84"	48"	75"	18"	72"	22"	72"	18"	72"	22"	72"	18"	48"	22"	42"	18"
30"	96"	42"	78"	24"	96"	36"	78"	48"	10"	108"	54"	96"	24"	84"	24"	72"	24"	72"	26"	72"	24"	54"	26"	48"	24"
42"	144"	48"	96"	36"	144"	42"	96"	60"	10"	180"	66"	144"	36"	120"	36"	96"	36"	84"	34"	72"	36"	60"	34"	48"	36"

NOTES:
1. FOR TEE WITH BRANCH UNEQUAL TO RUN USE TEE TYPE KICKER WITH D, L, AND W DIMENSIONS THE SAME AS THOSE FOR PLUG WITH SAME DIAMETER AS BRANCH OF TEE, SELECT "T" DIMENSIONS FROM TEE TABLE UNDER COLUMN HEADED BY THE SIZE OF THE BRANCH
2. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN USE NEXT LARGER SIZE
3. DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE
4. BLOCKING MUST BE PLACED AGAINST UNDISTURBED EARTH OR ROCK
5. CONCRETE BLOCKING SHALL BE CLASS "B"

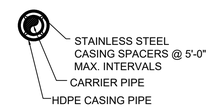
THRUST BLOCKING DETAIL

NOT TO SCALE



CASING PIPE UNDER STATE ROAD SHALL EXTEND TO THE GREATER OF THE FOLLOWING DISTANCES:

1. 2 FEET BEYOND TOE OF SLOPE
2. 3 FEET BEYOND DITCH LINE
3. A MIN. OF 25 FEET EACH SIDE FROM CENTER LINE OF OUTSIDE TRACK



SECTION "B-B"

STATE HIGHWAY BORE DETAIL

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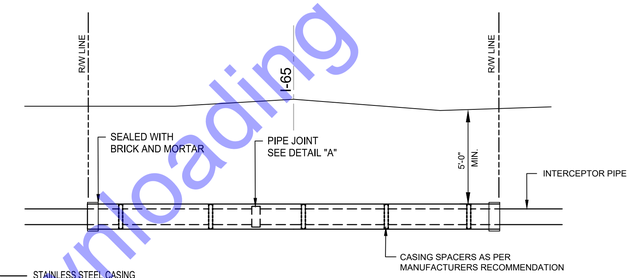
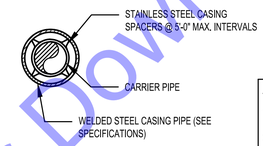


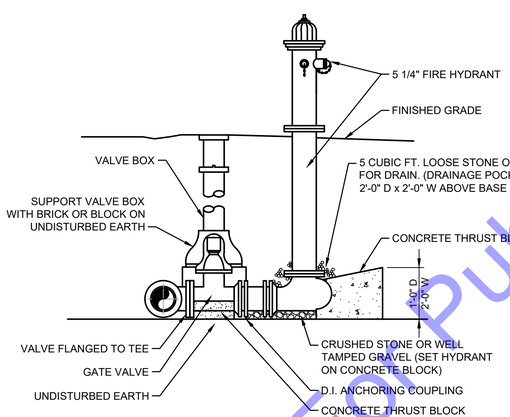


DETAIL "A"
NO SCALE

NOTE:
1. REFER TO SECTION 18 WITHIN THE DETAILED SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. USE OF THE SPECIALLY DESIGNED GASKET WILL ALLOW ELIMINATION OF THE PIPE RESTRAINT HARNESS.
3. CASING PIPE SHALL BE OF THE TYPE INCLUDED ON INDOT'S APPROVED MATERIALS LIST.
4. GROUT SHALL BE USED TO FILL THE ANNULAR SPACE BETWEEN THE CARRIER AND CASING PIPES.

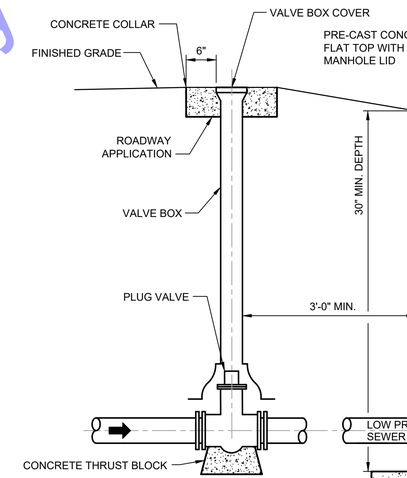
INTERSTATE HIGHWAY BORE DETAIL

NOT TO SCALE

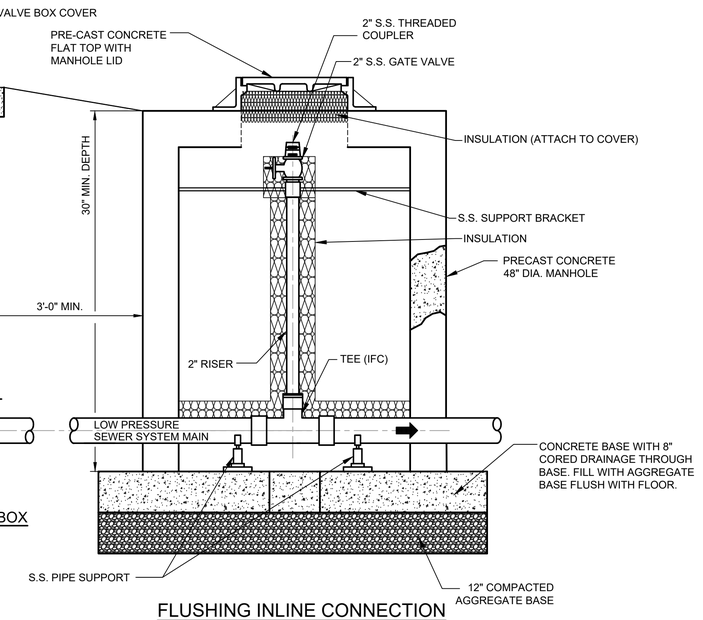


FIRE HYDRANT DETAIL

NOT TO SCALE



PLUG VALVE AND BOX



FLUSHING INLINE CONNECTION
NO SCALE

NOTE:
1. INLINE FLUSHING CONNECTION PLACED EVERY 500'. REFER TO PLANS FOR LOCATION.
2. INLINE FLUSHING PLUG VALVE PLACED EVERY 1000'. REFER TO PLANS FOR LOCATIONS.

FLUSHING CONNECTIONS AND PLUG VALVES

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ANDREW C. COCHRANE REGISTERED No. 19900094 STATE OF INDIANA PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane — Date: 11-12-24

CITY OF RENSSELAER
JASPER COUNTY, INDIANA
I-65 WATER AND SEWER IMPROVEMENTS

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MISCELLANEOUS DETAILS

Drawing No: MD1

Sheet: 51 OF 54

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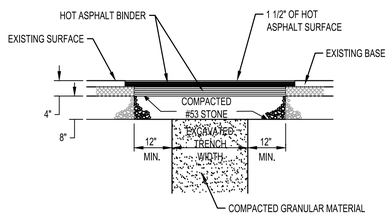

SURFACE RESTORATION DETAIL FOR ASPHALT PAVEMENT - LOCAL ROAD

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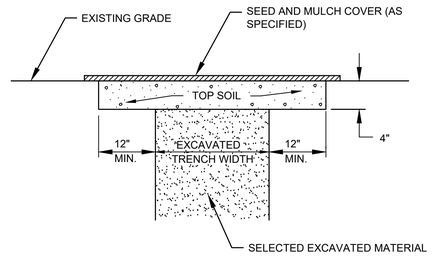
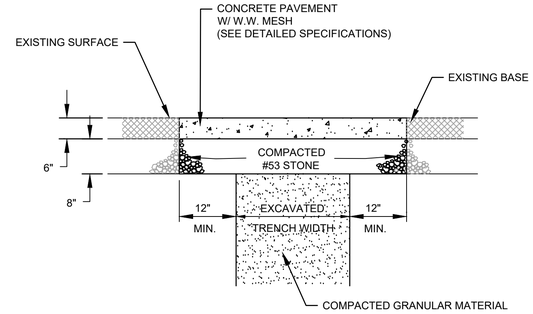


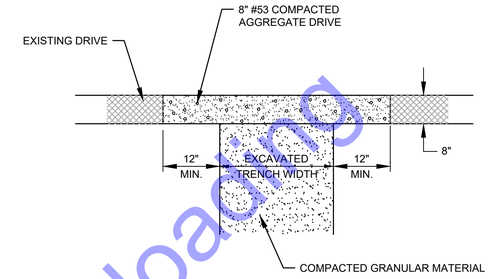
SURFACE RESTORATION DETAIL FOR GRASS AREA

NOT TO SCALE



SURFACE RESTORATION DETAIL FOR CONCRETE AREA - DRIVE

NOT TO SCALE



SURFACE RESTORATION DETAIL FOR GRAVEL PAVEMENT - ROAD

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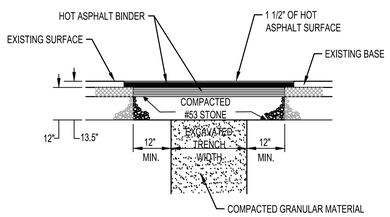
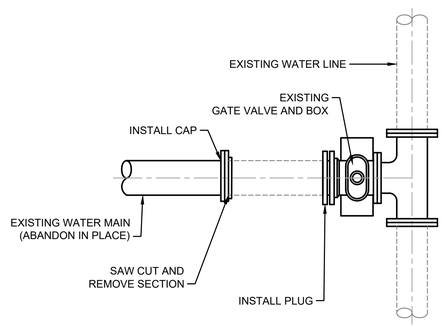


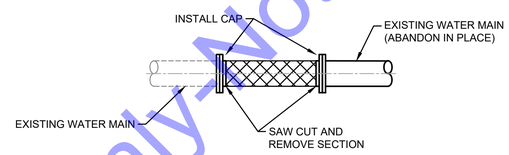
SURFACE RESTORATION DETAIL FOR ASPHALT PAVEMENT - OSOLO RD

NOT TO SCALE



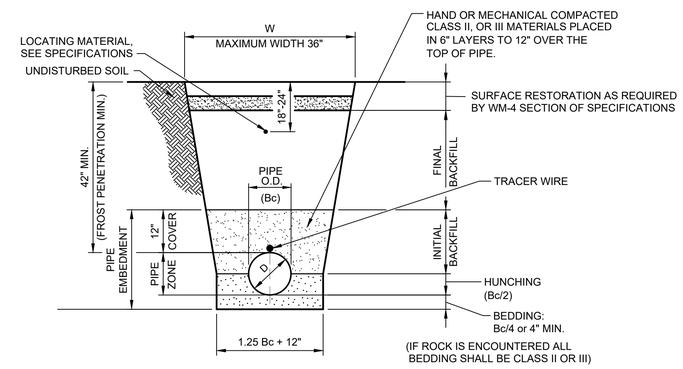
CUT AND CAP/PLUG DETAIL

NOT TO SCALE



WATER MAIN CUT AND CAP DETAIL

NOT TO SCALE



W = MAX. ALLOWABLE TRENCH WIDTH FOR PIPE SHALL NOT TO EXCEED 30 INCHES FOR 4" THROUGH 8" PIPE, 36" FOR 8" THROUGH 12" PIPE.

D = PIPE DIAMETER (INTERNAL)

Bc = PIPE DIAMETER (EXTERNAL)

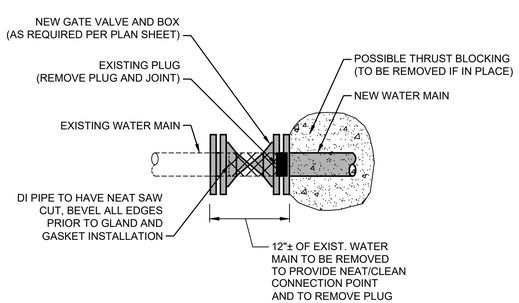
APPLICATION	BEDDING & HUNCHING INITIAL BACKFILL	FINAL BACKFILL
GRASSY AREA OR NEW PAVED AREAS	CLASS I, OR II MATERIAL (REFER TO WORKMANSHIP & MATERIALS SPECIFICATIONS	SELECTED EXCAVATED MATERIAL
PAVEMENT AREA OR ANY AREA SUBJECT TO VEHICULAR TRAFFIC	CLASS I, II OR III MATERIAL (REFER TO WORKMANSHIP & MATERIALS SPECIFICATIONS	COMPACTED GRANULAR MATERIAL

NOTES:

1. INITIAL BACKFILL STOPS AT A POINT 12" ABOVE THE TOP OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDING WITH THE SPECIFICATIONS AND AS REQUIRED BY HEREIN.
2. BEDDING, HUNCHING AND INITIAL BACKFILL SHALL BE CLASS I, II, OR III MATERIALS ACCORDING TO THE WORKMANSHIP AND MATERIALS SPECIFICATIONS.
3. 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.
4. WORK NOT FALLING UNDER THE JURISDICTION OF INDIANA DEPT. OF TRANSPORTATION SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 5 FEET OF THE EDGE OF PAVEMENT.

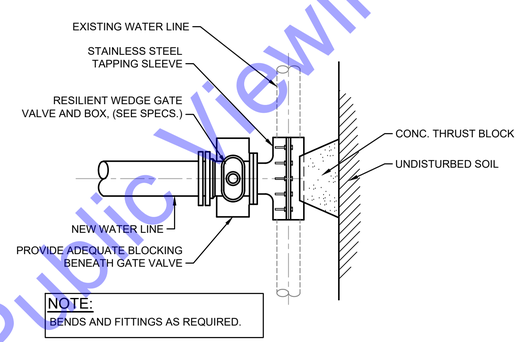
TRENCH DETAIL FOR WATER MAIN

NOT TO SCALE



TYPE "C" CONNECTION TO EXISTING WATER MAIN

NOT TO SCALE



NOTE:
BENDS AND FITTINGS AS REQUIRED.

TYPE "A" CONNECTION TO EXISTING WATER MAIN

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Signature: Andrew C. Cochrane — Date: 11-12-24

CITY OF RENSSELAER
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MISCELLANEOUS DETAILS

Drawing No: **MD2**

Sheet: 52 OF 54

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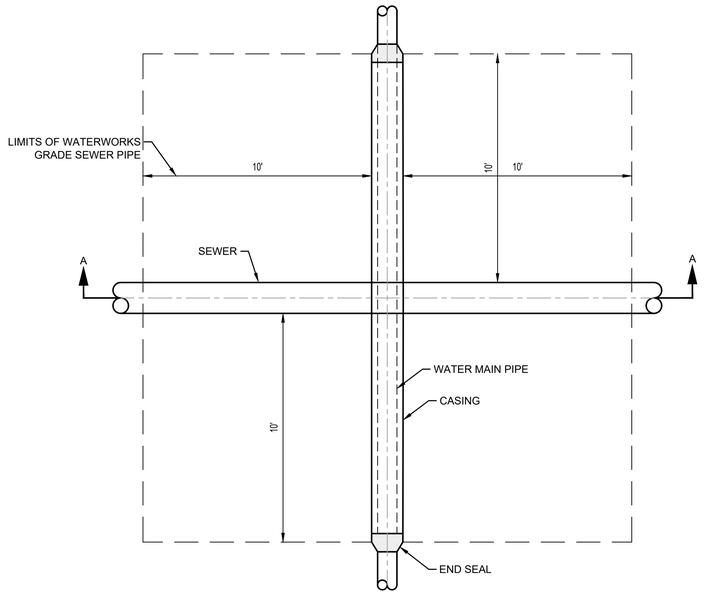
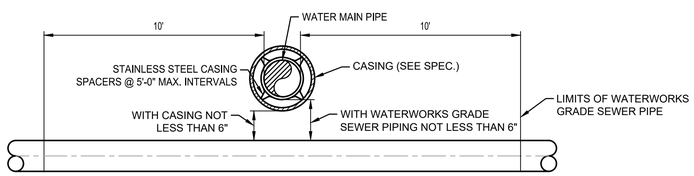


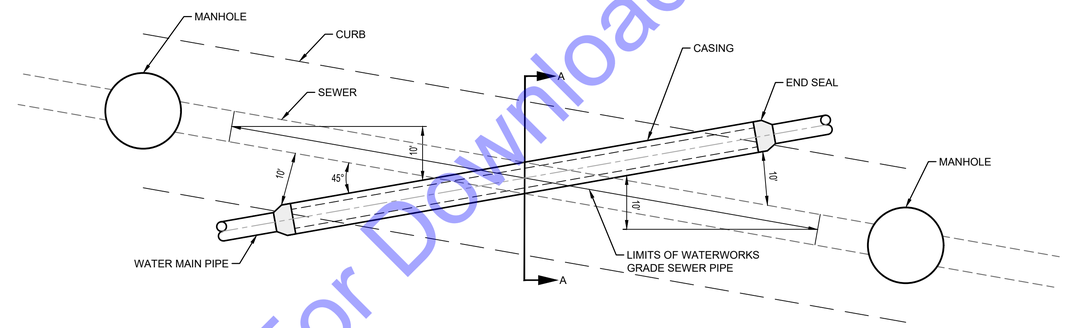
PLAN



SECTION A

WATER-VERTICAL SEPARATION FROM SEWERS

NOT TO SCALE



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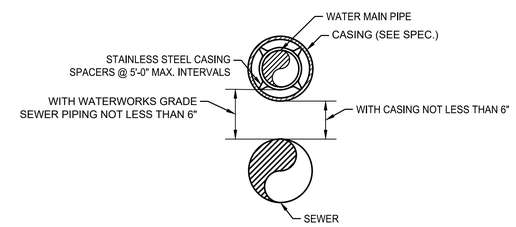

SECTION A

WATER-HORIZONTAL SEPARATION FROM SEWERS

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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: Andrew C. Cochrane
Date: 11-12-24

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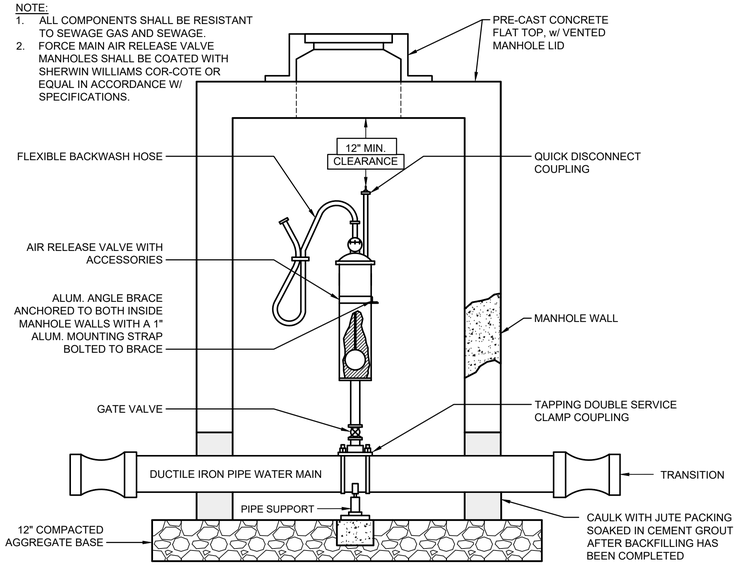
NOTE:
1. ALL COMPONENTS SHALL BE RESISTANT TO SEWAGE GAS AND SEWAGE.
2. FORCE MAIN AIR RELEASE VALVE MANHOLES SHALL BE COATED WITH SHERWIN WILLIAMS COR-COTE OR EQUAL IN ACCORDANCE W/ SPECIFICATIONS.



COMBINATION AIR RELEASE VALVE (SEE SPECIFICATIONS)

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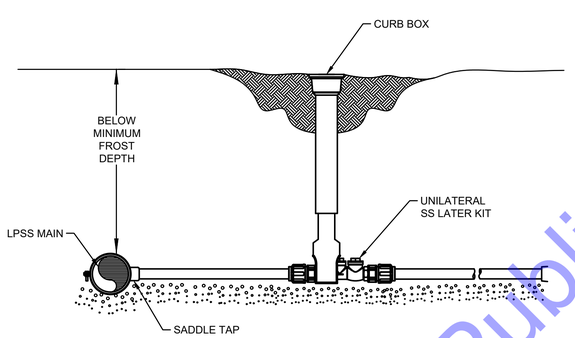

LATERAL PIPE SERVICE DETAIL

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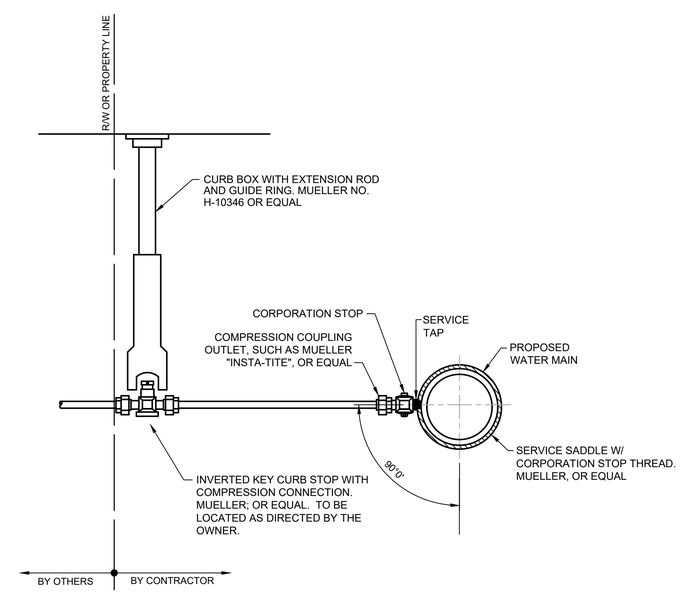

NEW 3/4" TO 2" SERVICE CONNECTION DETAIL

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No. 19900094
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Signature: Andrew C. Cochrane
Date: 11-12-24

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