CONSTRUCTION PLANS FOR:

NATURAL GAS MAIN RELOCATION S.R. 293/KINGSTON HIGHWAY AT DYKES CREEK *0015544*

MATT SANTINI
MAYOR

CALVIN COOLEY
MAYOR PRO TEM

COUNCIL MEMBERS

KARI HODGE - WARD ONE
CARY ROTH - WARD THREE
GARY FOX - WARD FIVE

JAYCE STEPP - WARD TWO
CALVIN COOLEY - WARD FOUR
TAFF WREN - WARD SIX

DAN PORTA - CITY MANAGER
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BRIAN FRIERY - ASSISTANT GAS SYSTEM DIRECTOR

City of Cartersville
GAS SYSTEM
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

PROJECT NO. CP-21-001 DATE: AUGUST 2023

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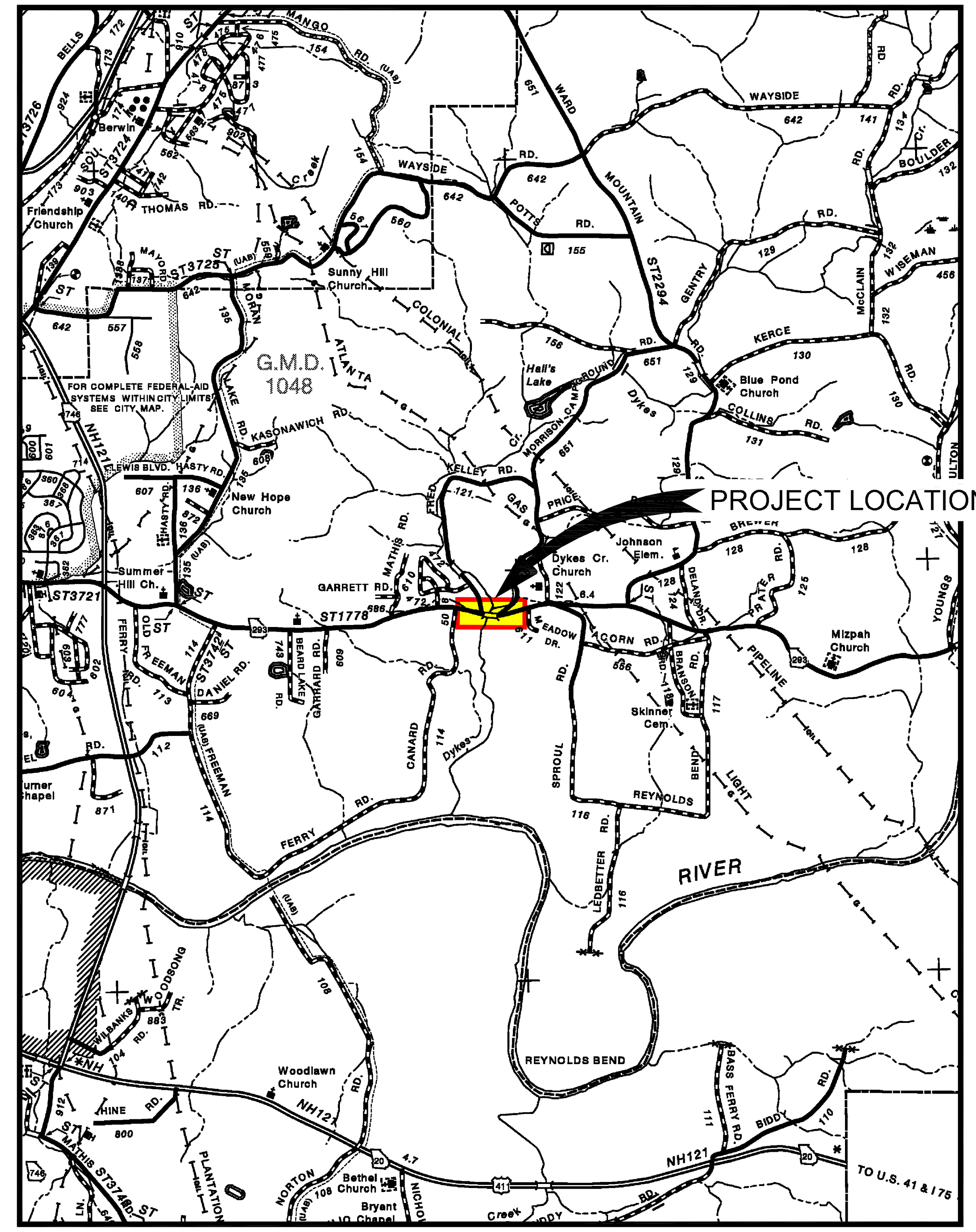
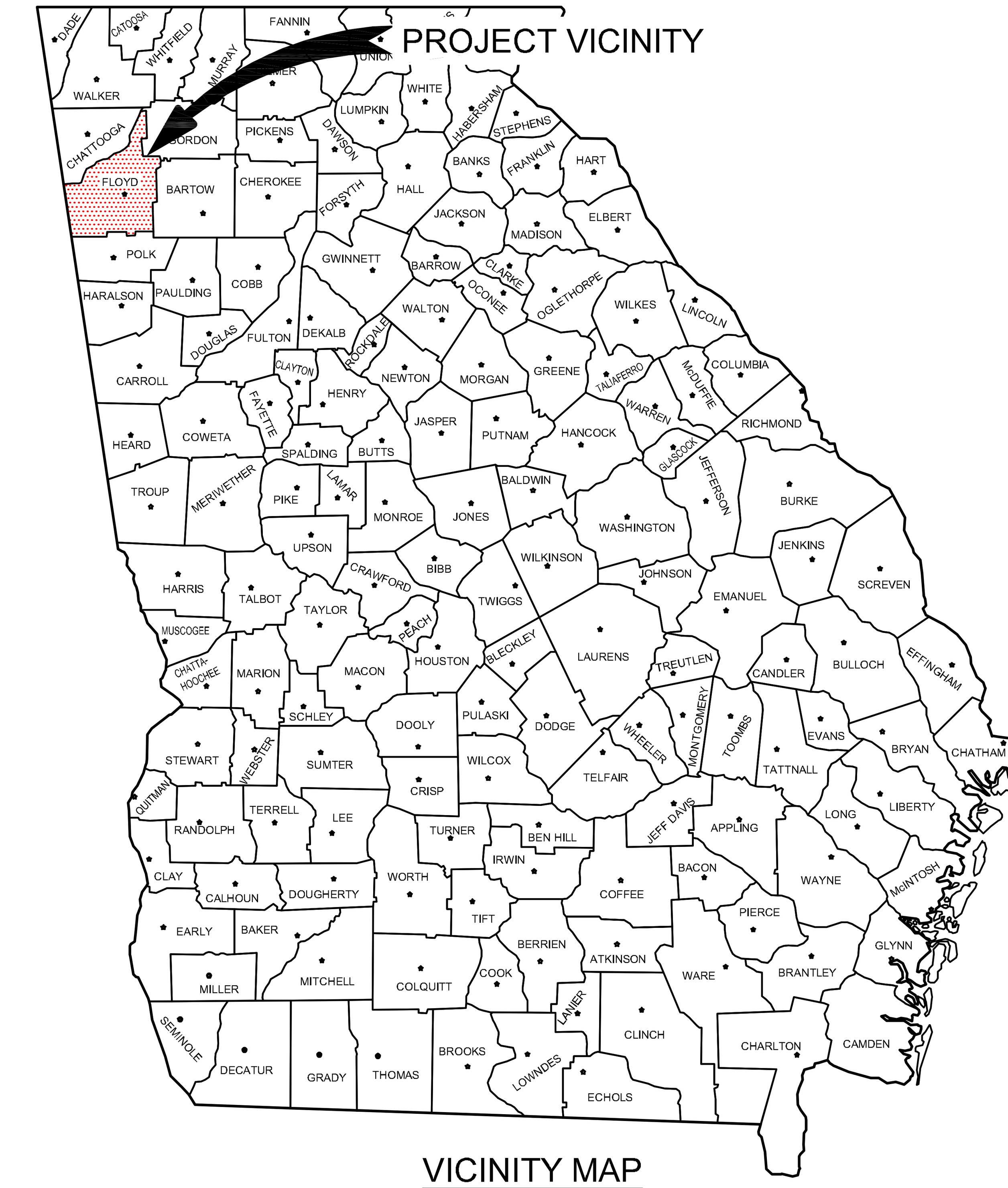
STA. 211+50 TO STA. 212+50	EXS-DET-09
STA. 213+00 TO STA. 214+00	EXS-DET-10
STA. 214+50 TO STA. 215+24	EXS-DET-11



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

1. Road construction plans were provided by the Georgia Department of Transportation by CAD files with the exceptionof the existing and proposed natural gas facilities owned and operated by the City of Cartersville, Georgia.

2. Proposed road construction will be completed by contract with the Georgia Department of Transportation. All proposed work at the locations shown in the plans and as called for in the specifications shall be coordinated with the Georgia Department of Transportation, the road construction contractor, the Owner and any other utility owners relocating their facilities in conjunction with this road construction project.

3. Proposed pipe shall be installed with a cover of 48" from proposed grade and shall be installed at greater depths where required by the plans or as directed by the Owner. A minimum 24" separation shall be maintained between the proposed pipe and existing and proposed drainage structures and utilities. Earthwork and side road cross sections and driveway and drainage profiles are provided with these plans for the determination of the required depth of the proposed facilities by the Contractor. It shall be the Contractor's responsibility to ensure the proposed facilities are installed without conflict to the proposed roadway construction and to provide all necessary surveying, staking and expertise required.

4. The normal operating pressure of the existing H.P. natural gas system is 300 psig and the normal operating pressure of the existing natural gas system downstream of the farm taps is 30 psig. The normal operating pressure of the existing systems will not be lowered at any time during construction to facilitate lower pressure tapping equipment. The Contractor shall ensure the natural gas system downstream of construction receives an uninterrupted flow of natural gas at all times during construction. If, at the fault of the Contractor, the flow of gas is interrupted, the Contractor shall be responsible for all costs incurred by the Owner associated with any loss of flow.

5. Marking tape shall be installed with a cover of 18" above the center line of all proposed line pipe. All costs incurred by the installation of marking tape shall be included in the price bid per lineal of pipe and there will be no additional compensation.

5. The Contractor shall be responsible for marking and maintaining the location of the facilities installed under this Contract with "locate flags" as called for in State and Local laws, rules and regulations. "Locate flags" will be provided by the Owner. All costs incurred by the marking of facilities shall be included in the price bid per lineal of pipe according to type of installation and size and there will be no additional compensation.

6. Proposed line pipe shall be bored across all paved roadways unless otherwise called for in the plans. Proposed line pipe crossing driveways shall be open-cut and the pavement replaced as called in the specifications. The Contractor may, at his discretion, bore any or all driveways and receive payment for pavement removed and replaced as called for in the specifications and there will be no additional compensation. All bores of pipe 2-3/8" O.D. and larger completed at the locations shown in the plans will be paid for at the price bid per lineal foot of bore according to size. All costs associated with bores of pipe less than 2-3/8" O.D. shall be included in the price bid per lineal foot of pipe and there will be no additional compensation.

7. Locations of underground utilities shown on the plans are not guaranteed as to accuracy nor completeness. It shall be the Contractor's responsibility to request field locations through the Utility Protection Center and any utility owners thought to have facilities in the area.

8. It shall be the Contractor's responsibility to maintain a superintendent on the project at all times during construction with a thorough knowledge and understanding of the plans and specifications. The Contractor shall provide necessary surveying, layout staking and expertise required to construct the proposed natural gas facilities at the locations shown in the plans.

9. Contractor shall be aware that this project is under the jurisdiction of a Force Account Agreement between the Owner and the Georgia Department of Transportation and all requirements, conditions and standards thereof shall apply to this project including daily work summaries known as Form DOT 8465.

LEGEND OF NATURAL GAS FACILITIES

Symbol	Description	Symbol	Description
"SIZE" HP GAS	EXISTING HIGH-PRESSURE MAIN	A	PROPOSED MAGNESIUM ANODE
"SIZE" LP GAS	EXISTING LOW-PRESSURE MAIN	LV	EXISTING FLANGED LINE VALVE
"SIZE" PE GAS	EXISTING POLYETHYLENE MAIN	LV	EXISTING WELDED/FUSION LINE VALVE
"SIZE" LP GAS	EXISTING MAIN TO BE ABANDONED		PROPOSED FLANGED LINE VALVE
	EXISTING ABANDONED MAIN		PROPOSED WELDED/FUSION LINE VALVE
"SIZE" CASING	EXISTING CASING PIPE	FT	EXISTING FARM TAP REGULATOR
"SIZE" HP GAS	PROPOSED HIGH-PRESSURE MAIN		PROPOSED FARM TAP REGULATOR
"SIZE" LP GAS	PROPOSED LOW-PRESSURE MAIN	MTR	EXISTING METER
"SIZE" PE GAS	PROPOSED POLYETHYLENE MAIN	MTR	PROPOSED METER
"SIZE" CASING	PROPOSED CASING PIPE	R	EXISTING CATHODIC PROTECTION RECTIFIER
←FLOW—	ONE-WAY FEED & DIRECTION	R	PROPOSED CATHODIC PROTECTION RECTIFIER
←FLOW→	TWO-WAY FEED & DIRECTION	RS	EXISTING REGULATING STATION
TS	EXISTING CATHODIC PROTECTION TEST STATION	RS	PROPOSED REGULATING STATION
TS	PROPOSED CATHODIC PROTECTION TEST STATION		
BS	EXISTING CATHODIC PROTECTION BOND STATION		
BS	PROPOSED CATHODIC PROTECTION BOND STATION		

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NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

LOCATION MAP-LEGENDS-GENERAL NOTES

CARTERSVILLE INCORPORATED 1850 GEORGIA
City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.
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SHEET: DET-01

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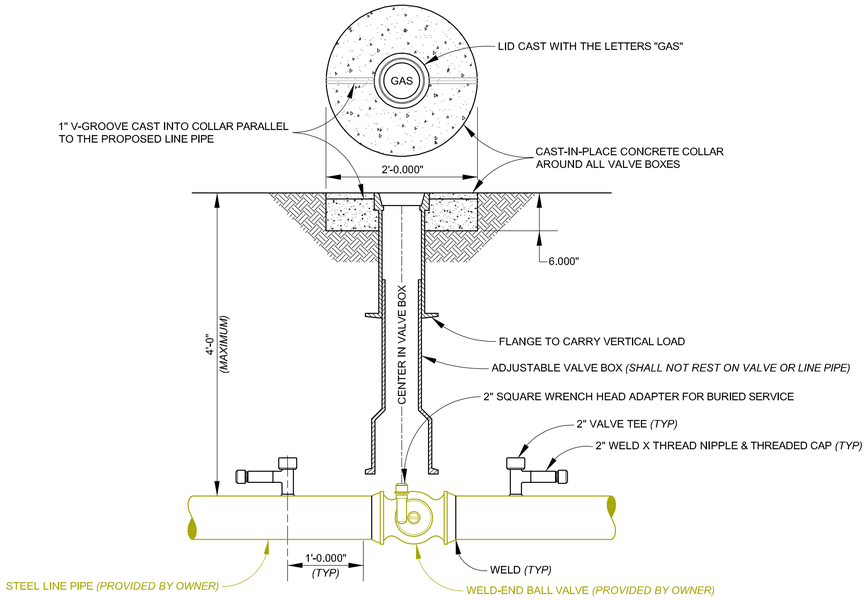


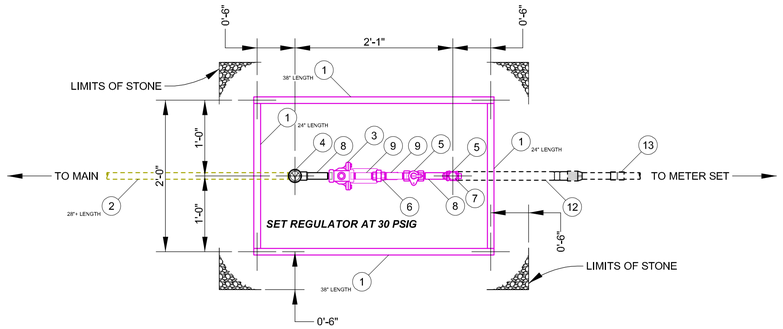
GEAR OPERATED LINE VALVE ASSEMBLY DETAIL

NOT TO SCALE

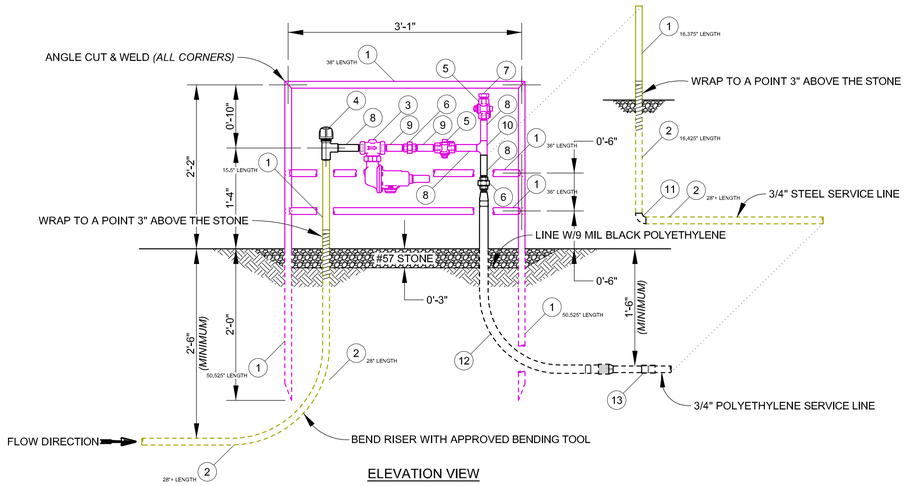
ITEM NO.	QTY.	UNIT	DESCRIPTION
1	33	L.F.	3/4" IPS-.113" W.T., SMLS B BARE STEEL LINE PIPE
2	9	L.F.	3/4" IPS-.113" W.T., F.B.E. COATED SMLS B STEEL LINE PIPE
3	1	EA.	3/4" NPT SENSUS MODEL 046-2 FIELD REGULATOR W/IRV, BUNA-N VALVE ASSEMBLY, BRASS TRIM, 1/8" ORIFICE, 15-52 PSIG OUTLET PRESSURE RANGE, 525# W.P.
4	1	EA.	1" MUELLER FORGED STEEL NO-BLO WELD X WELD VALVE TEE, CATALOG NUMBER H-17656, 1,440# W.P.
5	2	EA.	3/4" MUELLER CAST IRON LUBOSEAL METER VALVE W/LOCKWING, CATALOG NUMBER H-11175, 175# W.P.
6	1	EA.	3/4" FORGED STEEL NON-INSULATING UNION, ANSI CLASS 2000 *(ONE ADDITIONAL FOR POLYETHYLENE SERVICE)*
7	1	EA.	3/4" TYPE 316 STAINLESS STEEL THREADED HEX HEAD PLUG, ANSI CLASS 2000
8	3	EA.	3/4"X4" LENGTH THREAD X WELD SEAMLESS STEEL NIPPLE, GRADE B *(ONE ADDITIONAL FOR POLYETHYLENE SERVICE)*
9	2	EA.	3/4"X4" LENGTH THREAD X THREAD SEAMLESS STEEL NIPPLE, GRADE B
10	1	EA.	3/4" X 3/4" BUTT WELD SEAMLESS STEEL TEE, STANDARD WEIGHT, GRADE B
11	1	EA.	3/4" X 90° LONG RADIUS BUTT WELD SEAMLESS STEEL ELBOW, STANDARD WEIGHT, GRADE B *(ONE ADDITIONAL FOR STEEL SERVICE)*
12	1	EA.	3/4" x 3/4" ANODELESS SERVICE RISER *(ONLY FOR POLYETHYLENE SERVICE)*
13	1	EA.	3/4" PERFORMANCE PIPE SOCKET FUSION COUPLING *(ONLY FOR POLYETHYLENE SERVICE)*

GENERAL NOTES

1. Portions of the material for each farm tap assembly will be provided by the Owner and installed by the Contractor. This material is denoted in the color "dark yellow".
2. Portions of the material for each farm tap assembly will be provided by the Owner as an assembly and installed by the Contractor. This material is denoted in the color "dark magenta".
3. All above ground piping and appurtenances shall be painted in accordance with the specifications. All material constructed of stainless steel, plastic, brass, anodized aluminum or other materials rated for outdoor use shall not be installed or shall be properly masked until all painting operations have been completed. All assemblies provided painted by the Owner shall be touched up by the Contractor. The station shall not be placed into service until the final paint coat has been applied and cured and all workmanship is acceptable to the Owner.
4. Thread sealer rated for use with natural gas shall be utilized on all threaded connections.
5. The overall dimensions shown in this detail will be obtained by constructing this station with attention to the nipple dimensions as called for and the pup dimensions indicated beside each item number shown in the detail.



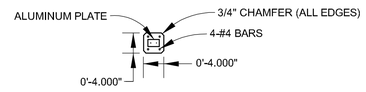
PLAN VIEW



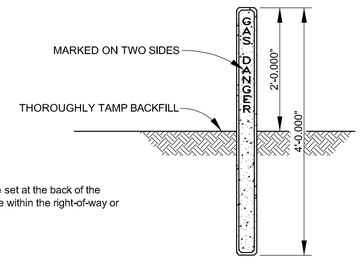
ELEVATION VIEW

FARM TAP ASSEMBLY DETAIL

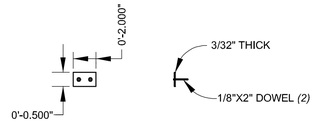
NOT TO SCALE



PLAN VIEW



Note: Valve markers shall be set at the back of the right-of-way or easement line within the right-of-way or easement.

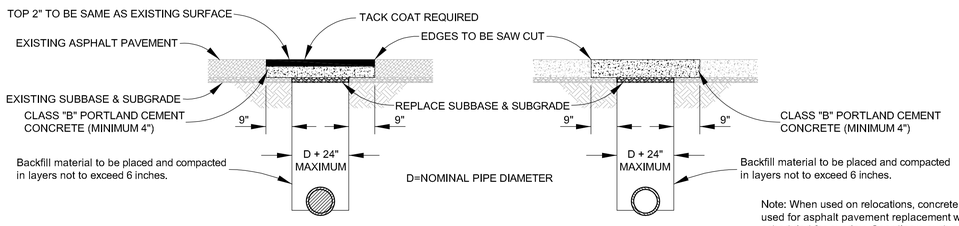


ALUMINUM PLATE CAST IN TOP OF MARKER POST:

Distance to nearest foot from center of post to center of valve box/valve cluster and direction arrow shall be stamped into plate with steel die after marker is set.

VALVE MARKER DETAIL

NOT TO SCALE



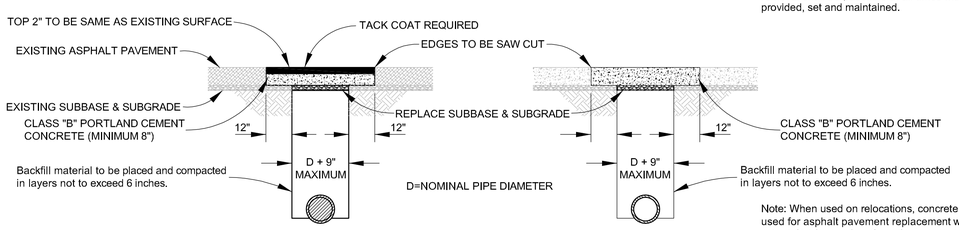
ASPHALT PAVEMENT CONCRETE PAVEMENT

Note: When used on relocations, concrete pavement detail shall be used for asphalt pavement replacement where existing pavement is scheduled for overlay. Coordinate such areas with road construction contractor.

TYPICAL PAVEMENT REMOVAL DETAILS FOR DRIVEWAYS

NOT TO SCALE

Note: Pavement removed and replaced shall be completed in a fashion where disruption of traffic will be minimal. Areas of pavement removal shall be passable at all times with traffic bearing plates to be provided, set and maintained.



ASPHALT PAVEMENT CONCRETE PAVEMENT

Note: When used on relocations, concrete pavement detail shall be used for asphalt pavement replacement where existing pavement is scheduled for overlay. Coordinate such areas with road construction contractor.

TYPICAL PAVEMENT REMOVAL DETAILS FOR ROADWAYS

NOT TO SCALE

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MISCELLANEOUS DETAILS

City of Cartersville
GAS SYSTEM
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: NO SCALE	
PROJ NO: CP-21-001	
SHEET: DET-02	

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PERMANENT PLANT SPECIES, SEEDING RATES AND PLANTING DATES

SPECIES	RATES PER ACRE	RATES PER 1,000 SQ. FT.	PLANTING DATES BY MLRA M-L	 P	 C	REMARKS
Bahia, Pensacola: Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	---	4/1-5/31	3/1-5/31	Low growing; sod producing; will spread into Bermuda lawns.
Bahia, Wilmington: Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	3/15-5/31	3/1-5/31	---	Same as above.
Bermuda, Common: *(Hulled seed)* Alone With other perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lb.	---	4/1-5/31	3/15-5/31	Quick cover; low growing; sod forming; needs full sun.
Bermuda, Common: *(Unhulled seed)* With temporary cover With other perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lb.	---	10/15-2/28	11/1-1/31	Plant with Winter annuals. Plant with Tall Fescue.
Bermuda Sprigs: Common lawn and Forage hybrids	40 cu.ft. Sod plugs 3'x3'	0.9 cu. ft.	4/15-6/15	4/1-6/15	4/1-5/31	1 cu. ft. = 650 sprigs; 1 bu = 1.25 cu. ft. or 800 sprigs
Crown Vetch: With winter annuals or cool season grasses	15 lbs.	0.3 lbs.	9/1-10/15	9/1-10/15	---	Mix with 30 lbs. Tall Fescue or 15 lbs.Rye; inoculate seed; plant only North of Atlanta.
Fescue, Tall: Alone With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lbs.	3/1-4/1 or 8/15-9/30	8/15-10/15 or 2/15-4/15	---	Mix with perennial Lespedezas or Crown Vetch; not for droughty soils or heavy use areas.
Lespedeza, Sericea: Scarified	60 lbs.	1.4 lbs.	4/1-5/31	3/15-5/31	3/1-5/15	Widely adapted and low maintenance; takes 2-3 years to establish; inoculate seed with EL inoculate; mix with Weeping Lovegrass, Common Bermuda, Bahia or Tall Fescue.
Unscarified	75 lbs.	1.7 lbs.	9/1-2/28	9/1-2/28	9/1-2/28	Mix with Tall Fescue or winter annuals.
Seed-bearing hay	3 tons	138 lbs.	10/1-2/1	10/1-2/28	9/15-1/15	Cut when seed is mature but before it shatters. Add Tall Fescue or winter annuals.
Lespedeza, Ambro Virgata or Appalow: Scarified Unscarified	60 lbs. 75 lbs.	1.4 lbs. 1.7 lbs.	4/1-5/31 9/1-2/28	3/15-5/31 9/1-2/28	3/1-5/15 9/1-2/28	Spreading growth with height of 18"-24"; good in urban area; slow to develop good stands; mix with Weeping Lovegrass, Common Bermuda, Bahia Tall Fescue or winter annuals; do not mix with Sericea Lespedeza; inoculate see with EL inoculate.
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergii) : Plants	3'x3' spacing		11/1-3/31	11/1-3/15	11/15-2/28	Plant in small clumps for wildlife food and cover.
Lovegrass, Weeping: Alone With other perennials	4 lbs. 2 lbs.	0.1 lb. 0.05 lb.	4/1-5/31	3/15-5/31	3/15-5/31	Quick cover; drought tolerant; grows well with Sericea Lespedeza on road-banks and other steep slopes; short lived.
Maidencane sprigs:	2'x3' spacing		2/1-3/31	2/1-3/31	2/1-3/31	For very wet sites such as riverbanks and shorelines. Dig sprigs locally.
Panicgrass, Atlantic Coastal:	20 lbs.	0.5 lb.	---	3/1-4/30	3/1-4/30	Grows well on coastal sand dunes; mix with Sericea Lespedeza but not on sand
Reed Canary Grass: Alone With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lb.	8/15-10/15	9/1-10/15	---	Grows similar to Tall Fescue; for wet sites FLATWOODS
Sunflower, Aztec Maximillian:	10 lbs.	0.2 lb.	4/15-5/31	4/15-5/31	4/1-5/31	Mix with Weeping Lovegrass or other low growing grasses or legumes.
Switchgrass:	20 lbs.	0.4 lb.	4/1-5/31	4/1-5/31	4/1-5/31	For streambank plantings, drainage ditches, and wet areas.

1. Rates are for broadcast seed. If a seed drill is used, reduce the rates by one-half.
2. The resource areas are defined in the MLRAs of Georgia map.

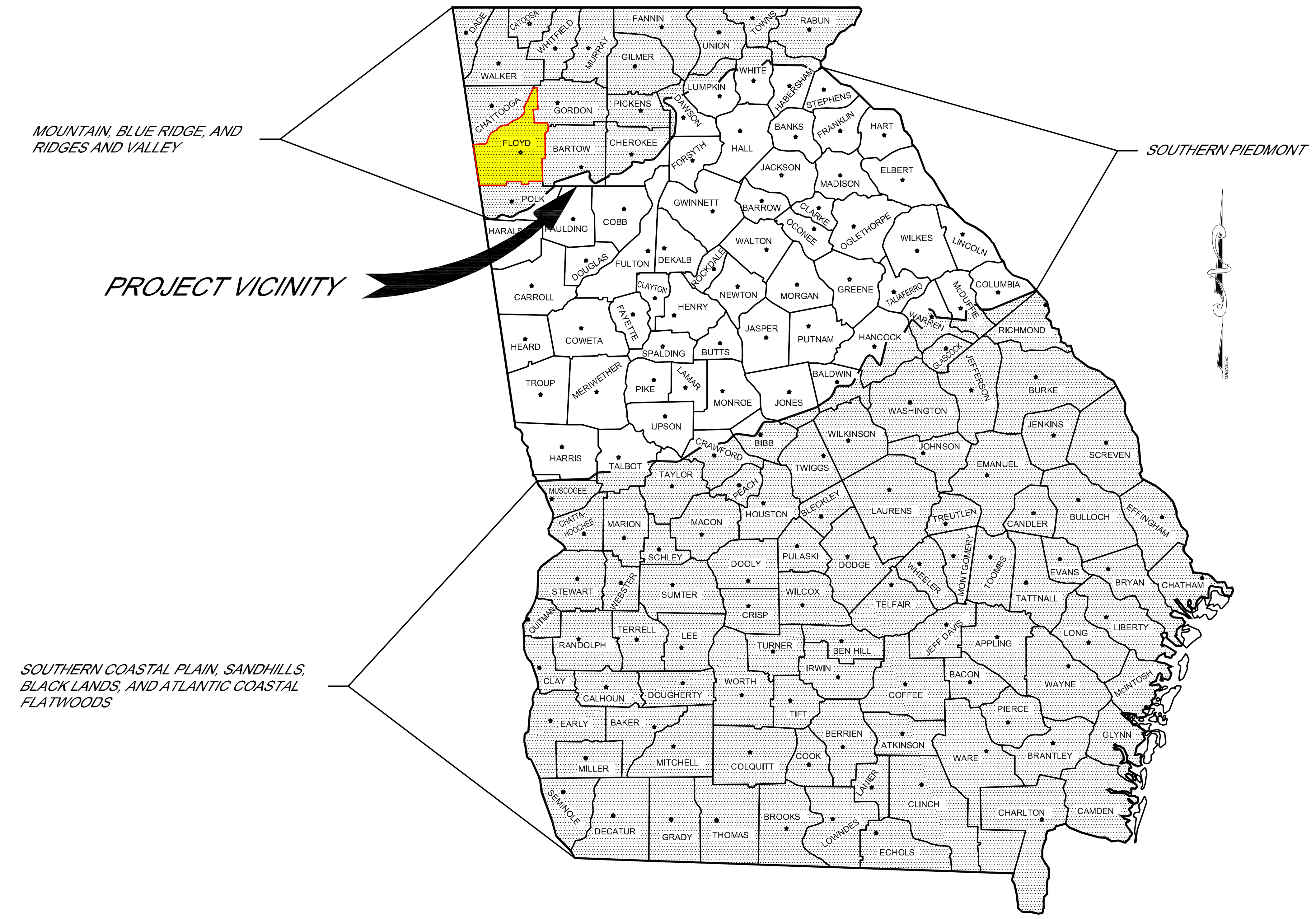
SUGGESTED SEEDBED DEPTHS

SLOPE	SEEDBED DEPTH
3:1 or Flatter	Less than 4" Depth
2:1 to 3:1	1" to 4" Depth
2:1 or Steeper	Depressions every 6"-8" hand dug, if necessary

FERTILIZER, LIME & MULCH REQUIREMENTS

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER *(N-P-K)*	RATE *(LBS./ACRE)*	N TOP DRESSING RATE *(LBS./ACRE)*	LIME RATE *(TONS/ACRE)*	MULCH RATE *(TONS/ACRE)*
Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 --- 30	2	2-1/2
Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50 --- ---	2	2-1/2
Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30	2	2-1/2
Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 1000 400	50 --- ---	2	2-1/2

Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGITATION)



MAJOR LAND RESOURCE AREAS (MLRAs) OF GEORGIA

NOT TO SCALE

ACTIVITY SCHEDULE

DECRIPTION OF ACTIVITY	AUGUST 1st 2nd 3rd 4th	SEPTEMBER 1st 2nd 3rd 4th	OCTOBER 1st 2nd 3rd 4th	NOVEMBER 1st 2nd 3rd 4th	DECEMBER 1st 2nd 3rd 4th
Installation of silt & erosion control devices					
Installation of pipeline & appurtenances					
Maintenance of silt & erosion control devices					
Dressing and permanent grassing					
Removal of silt & erosion control devices					

SILT & EROSION CONTROL NOTES

1. The construction of this project requires Best Management Practices *(BMPs)* in the prevention of sedimentation and the control of erosion. All silt and erosion control devices installed, constructed and maintained on this project shall conform to the standards and specifications set forth by the "Manual for Erosion and Sediment Control in Georgia", latest edition and must withstand up to a 25-year rainfall event. The road construction contractor will be responsible for providing silt and erosion control permitting and the installation of silt and erosion control devices project wide.

2. The Contractor will be responsible for the prevention of sedimentation and erosion control in all areas outside the scope of the road contractor's silt and erosion control limits until permanent grassing has been established such areas disturbed by construction and sedimentation and erosion is no longer evident. Silt and erosion control devices will be paid for at the unit price bid according to device.

3. The Contractor will be responsible for the protection of existing silt and erosion control devices installed, constructed and maintained by others. If such devices are disturbed or damaged by the Contractor, all such devices shall be repaired or replaced at the Contractor's expense.

4. All materials to construct silt and erosion control devices shall be in accordance with the State of Georgia, Department of Transportation "Standard Specifications for Road and Bridge Construction". All such material shall appear on the State of Georgia, Department of Transportation Qualified Products List prior to use on this project.

5. All silt and erosion control devices installed by the Contractor in accordance with these requirements or at the direction of the Owner shall be properly maintained by the Contractor at all times until permanent grassing has been established in all areas disturbed by construction and sedimentation and erosion is no longer evident. Such silt and erosion control devices shall be cleaned of accumulated silt before the devices reach half full and all devices shall be maintained in good working order. The Contractor shall inspect such silt and erosion control devices for proper installation and working order on a daily basis and immediately following each rainfall event. Any such devices that become damaged or is not in proper working order shall be immediately remedied or replaced by the Contractor. All silt or sediment leaving such areas disturbed by construction shall be immediately removed, cleaned and restored to as near as original condition as possible. If necessary, additional silt and erosion control measures will be required outside the areas disturbed by construction to prevent further sedimentation and erosion.

6. Once permanent grassing has been established in all areas where the Contractor has been required to install silt and erosion control devices and sedimentation and erosion is no longer evident, the Contractor shall properly remove all silt and erosion control devices from the project site.

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

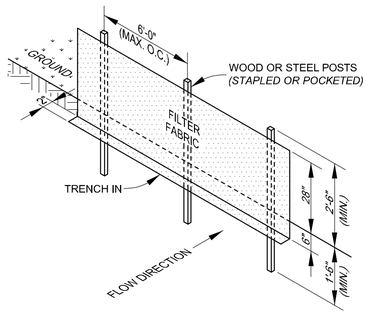
SILT & EROSION CONTROL
DISTURBED AREA STABILIZATION

CARTERSVILLE INCORPORATED 1850 GEORGIA
City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: NO SCALE
PROJ NO: CP-21-001
SHEET: EC-DET-01

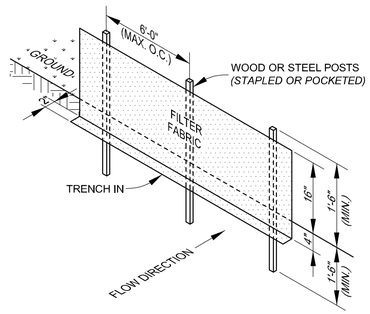
C:\USERS\BFRIERY\APPDATA\LOCAL\TEMP\ACPUBLISH_18036\CP-21-001-DET.DWG AUGUST 04, 2023 - 4:01PM

Note: Temporary silt fence shall meet the requirements of Section 171 - "Temporary Silt Fence" of the Georgia Department of Transportation's Standard Specifications for Road and Bridge Construction, Latest Edition.



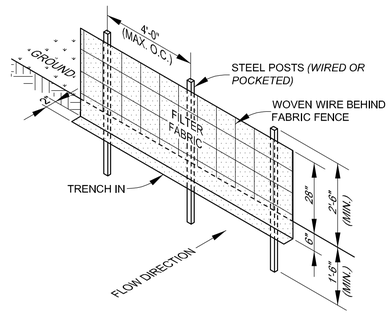
TYPE "A"

(use where life expectancy is greater than six months or slope gradient is steeper than 3:1 or otherwise directed)



TYPE "B"

(use where life expectancy is less than six months or slope gradient is less than or equal to 3:1 or otherwise directed)



TYPE "C"

(use where fill slopes exceed a vertical height of 20' and slope gradient is steeper than 3:1 or otherwise directed)

Sd1 **TEMPORARY SILT FENCE DETAILS**

NOT TO SCALE

SILT & EROSION CONTROL NOTES

1. The construction of this project requires Best Management Practices *(BMPs)* in the prevention of sedimentation and the control of erosion. All silt and erosion control devices installed, constructed and maintained on this project shall conform to the standards and specifications set forth by the "Manual for Erosion and Sediment Control in Georgia", latest edition and must withstand up to a 25-year rainfall event. The road construction contractor will be responsible for providing silt and erosion control permitting and the installation of silt and erosion control devices project wide.

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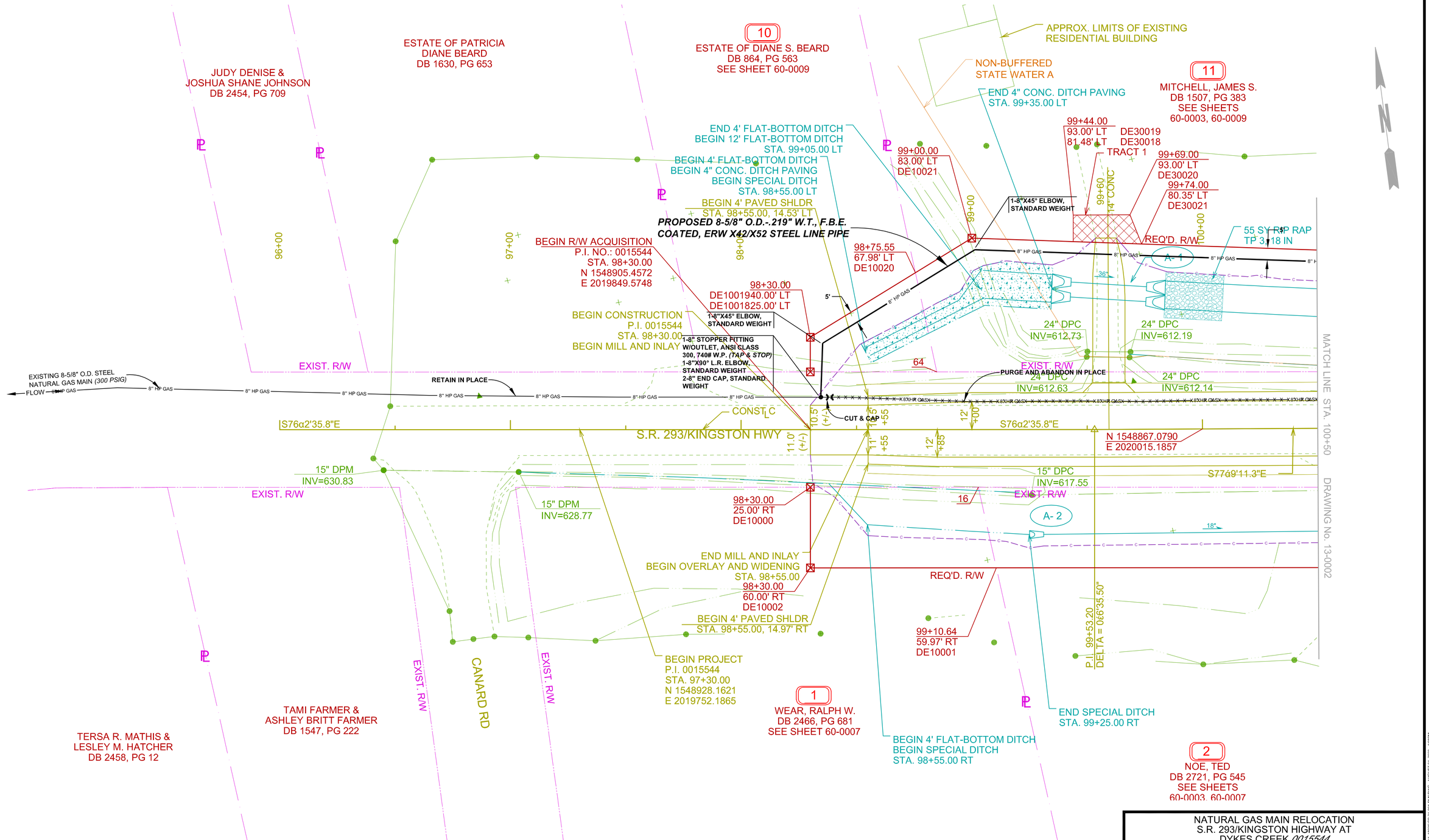
NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

SILT & EROSION CONTROL
MISCELLANEOUS DETAILS

City of Cartersville
GAS SYSTEM
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: NO SCALE
PROJ NO: CP-21-001
SHEET: EC-DET-02

C:\DESIGNS\REVIVAPROJECTS\CARTERSVILLE\TEMPLATE\CP-21-001-DET.DWG AUGUST 04, 2023 - 4:01PM



ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

RELOCATION PLAN
BEGIN PROJECT TO STA. 100+50

City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: 1"=20'	
PROJ NO: CP-21-001	
SHEET: PLN-01	

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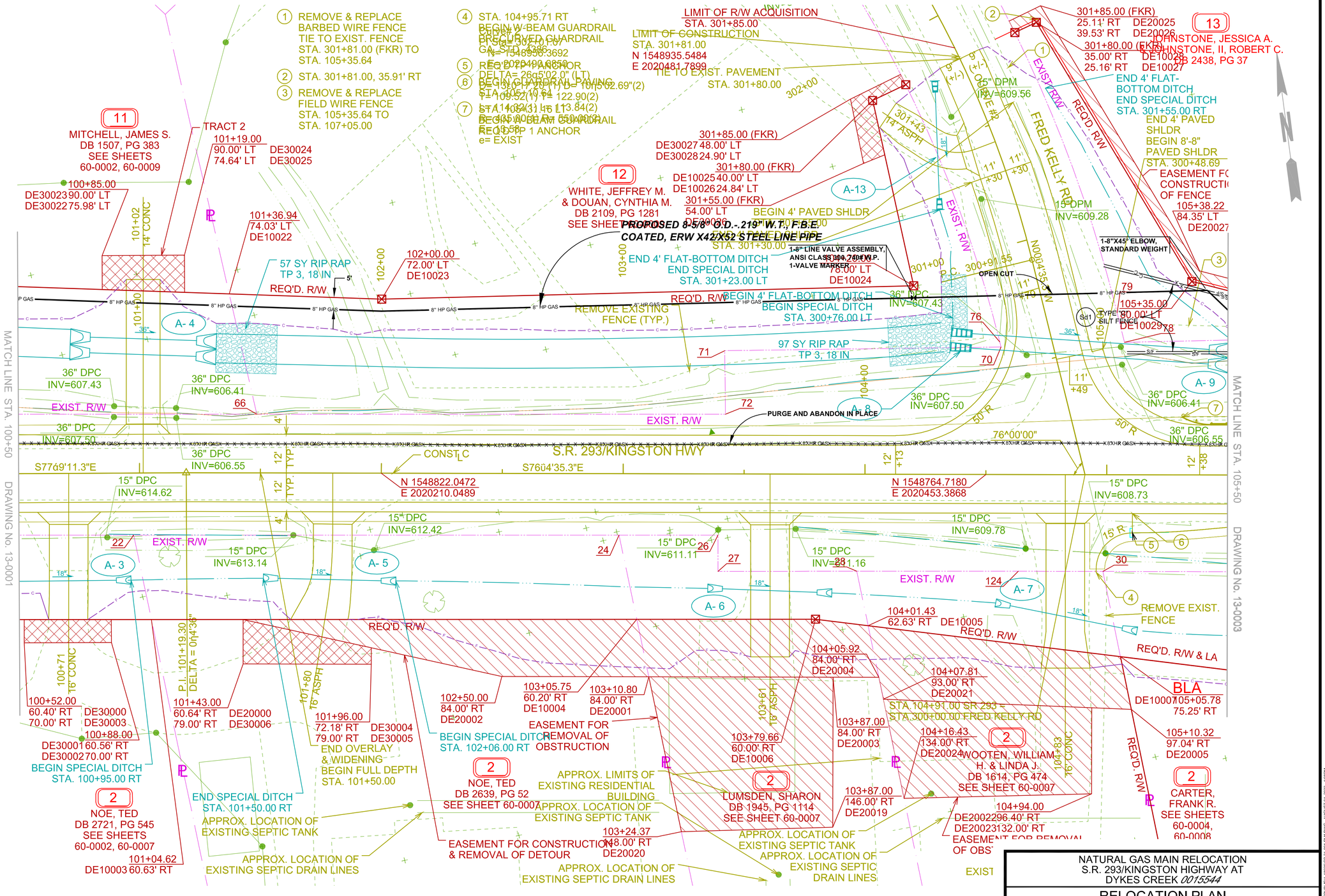

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(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

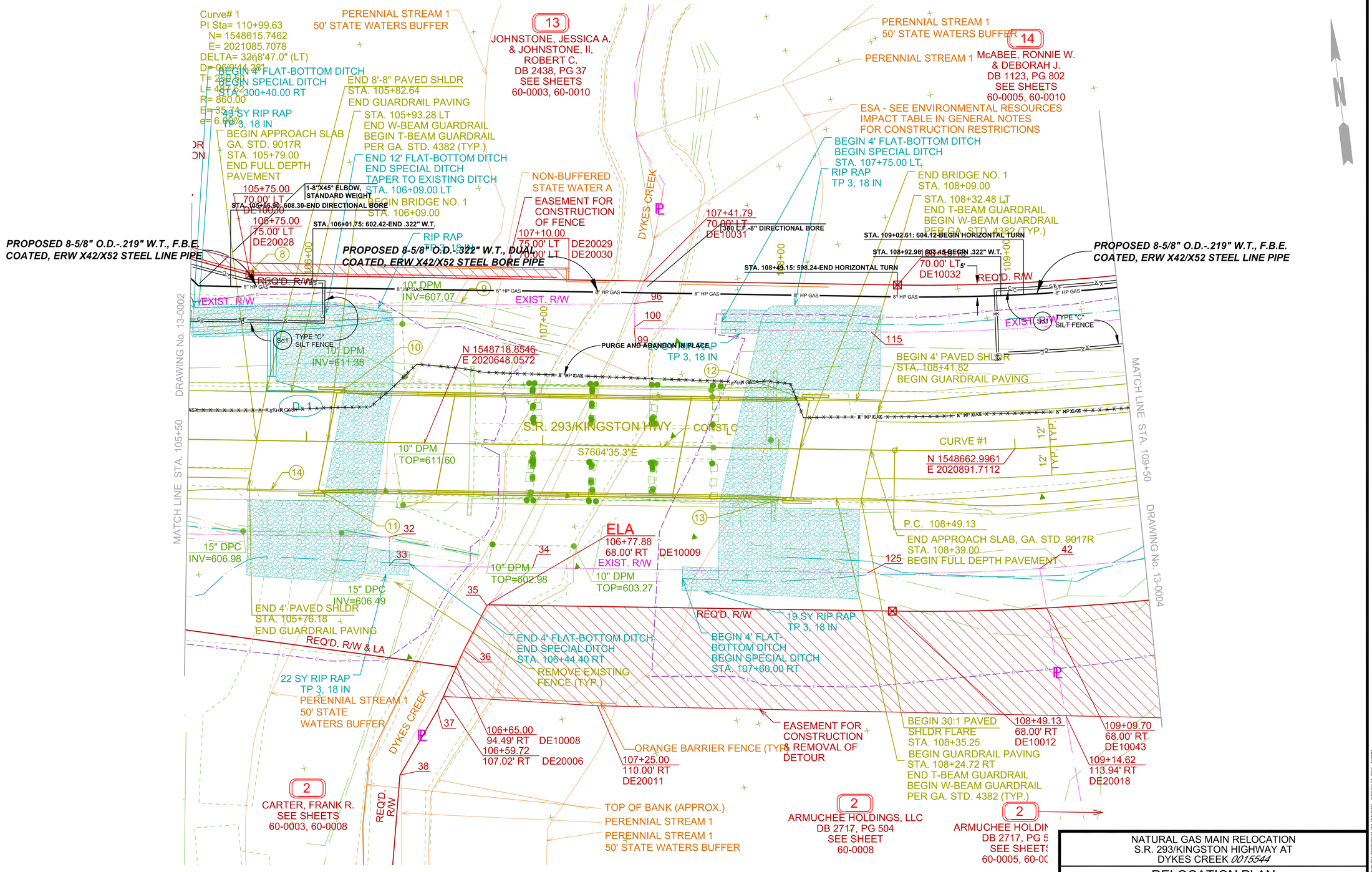
NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT DYKES CREEK *0015544*

RELOCATION PLAN
STA. 100+50 TO STA. 105+50

City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: 1"=20'	
PROJ NO: CP-21-001	
SHEET: PLN-02	

C:\USERS\BFISHER\APPDATA\LOCAL\TEMP\ACPUBLISH_16036\CP-21-001-PLN02.DWG AUGUST 04, 2023 - 4:08PM



ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

RELOCATION PLAN
STA. 105+50 TO STA. 109+50

City of Cartersville GAS SYSTEM
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: 1"=20'	
PROJ NO: CP-21-001	
SHEET: PLN-03	

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STA. 109+60.37 LT
END W-BEAM GUARDRAIL
REQ'D TP 12A ANCHOR

END 30:1 PAVED SHLDR FLARE
BEGIN 4' PAVED SHLDR
STA. 109+92.75

109+85.00
70.00' LT
DE10033

END GUARDRAIL PAVING
STA. 110+13.59

500+70.00 (MCGR)
DE10041 40.00' LT
DE10042 25.68' LT

STA. 109+45.56: 609.70-BEGIN DIRECTIONAL BORE

1-FARM TAP REGULATOR ASSEMBLY
1-CONNECTION TO EXISTING 3/4" STEEL
1-3/4" END CAP, STANDARD WEIGHT

5'
1-3/4" SERVICE TEE, 1,200# W.P.

TYPE "C" SILT FENCE
Sd1
114

PURGE AND REMOVE EXISTING FARM TAP REGULATOR

113

111

N 1548650.2752
E 2021040.9801

PURGE AND ABANDON IN PLACE

18" DPC
INV=619.08

DRAWING No. 13-0003

MATCH LINE STA. 109+50

45

EXIST. R/W

44

CURVE #1

12' +/-

50' R

15' R

18"

20' R

48

47

18" DPC
INV=621.14

18" DPC
INV=622.15

A-12

END GUARDRAIL PAVING
STA. 110+16.24

109+75.00
122.00' RT
DE20010

REQ'D TP 1 ANCHOR
STA. 110+29.65 RT
.D W-BEAM GUARDRAIL
RECURVED GUARDRAIL
GA. STD. 4386

110+50
14' ASPH

110+50.00
122.00' RT
DE20009
EASEMENT FOR CONSTRUCTION & REMOVAL OF DETOUR

2
ARMUCHEE HOLDINGS, LLC
DB 2717, PG 504
SEE SHEETS
60-0004, 60-0008

14
McABEE, RONNIE W. & DEBORAH J.
DB 1123, PG 802
SEE SHEETS
60-0004, 60-0010

END 4' PAVED SHLDR
STA. 500+71.29

RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE

CONSTRUCTION
STA. 500+71.29
N 1548717.0496
E 2021070.5870

Curve# 1
PI Sta= 110+99.63
N= 1548615.7462
E= 2021085.7078
DELTA= 32ñ8'47.0" (LT)
D= 06ì9'44.28"
T= 250.50
L= 487.52
R= 860.00
E= 35.74
e= 6.00%

Curve# 3
PI Sta= 500+90.90
N= 1548739.4292
E= 2021064.9348
DELTA= 46í0'12.9" (RT)
D= 38ε1'49.87"(1) D= 25ñ7'53.25"(2)
T= 74.54(1) T= 89.82(2)
L= 54.93(1) L= 100.23(2)
R= 150.00(1) R= 225.00(2)
E= 17.50
e= EXIST

18" DPC
INV=614.89

18" DPC
INV=618.42

502+00

EXIST. R/W

LIMIT OF R/W ACQUISITION
STA. 500+85.00

N57ɑ1'07.9"E

EXIST. R/W

113+89.00
DE30031 54.00' LT
DE30032 42.00' LT

113+55.00
DE30030 54.00' LT
DE30029 42.00' LT

113+50.00
42.00' LT
DE10037

15
THOMAS, FRANK & KATHY
DB 2378, PG 1237
PB 6, PG 15
SEE SHEETS
60-0006, 60-0010

C- 0

END SPECIAL DITCH
STA. 113+25.00 LT
14 SY RIP RAP
TP 3, 18 IN

113+00

113+36.65

113+72
14' CONC

114+00

DRAWING No. 13-0005

MATCH LINE STA. 114+00

RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE

P.C.C. STA. 501+29

CURVE #3

P.T. 501+71.51

2-8"X45° ELBOW, STANDARD WEIGHT

CUT & CAP

PROPOSED 3/4" IPS-.113" W.T., F.B.E. COATED, SMLS B STEEL LINE PIPE

OPEN CUT

LUNSFORD CAMP GROUND RD

2-8"X45° ELBOW, STANDARD WEIGHT

BEGIN 4' PAVED SHLDR
STA. 500+71.29

500+85.00 (MCGR)
VARIES
24.08' RT
DE10034

APPROX. LOCATION OF EXISTING SEPTIC TANK

BEGIN SPECIAL DITCH
STA. 111+13.00 LT

BEGIN SPECIAL DITCH
STA. 111+50.00 LT
14 SY RIP RAP
TP 3, 18 IN

PROPOSED 8-5/8" O.D. .219" W.T. F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE

A-10

18" DPC
INV=621.78

111+50.00
51.50' LT
DE10035

END SPECIAL DITCH
STA. 111+30.00 RT
REQ'D. R/W

1-3/4" SERVICE TEE, 1,200# W.P.
1-CONNECTION TO EXISTNG 3/4" STEEL
1-3/4" END, STANDARD WEIGHT

116

77^33'00"

N 1548702.6192
E 2021[illegible]

PROPOSED 3/4" IPS-.113" W.T., F.B.E. COATED, SMLS B STEEL LINE PIPE

REQ'D. R/W

PURGE AND ABANDON IN PLACE

123

1-3/4" SERVICE TEE, 1,200# W.P.

CUT & CAP

EXIST. R/W

S.R. 293/KINGSTON HWY

12' TYP.

4' TYP.

18" DPC
INV=630.57

18" DPC
INV=632.86

PURGE AND ABANDON IN PLACE

CONST C
INV=635.28
N7006'37.7"E

15" DPM
INV=636.12

18"

PURGE AND REMOVE EXISTING FARM TAP REGULATOR

CUT & CAP

B- 0

END FULL DEPTH
BEGIN OVERLAY & WIDENING
STA. 110+75.00

END SPECIAL DITCH
STA. 111+30.00 RT

24 SY RIP RAP
TP 3, 18 IN

BEGIN 4' FLAT-BOTTOM DITCH
STA. 112+30.00 RT

112+25.00
68.00' RT
DE20008

STA.110+56.07 SR 293 =
STA.500+00.00 MORRISON CAMP GROUND RD

ORANGE BARRIER FENCE (TYP)

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

112+53
4" CONC

112+67.00
71.00' RT
DE30014

112+62.00
62.27' RT
DE30011

112+52.97
68.00' RT
DE10010

113+00.00
40.00' RT
DE10015

113+36.65
40.00' RT
DE10014

1-FARM TAP REGULATOR ASSEMBLY
1-CONNECTION TO EXISTING 3/4" STEEL
1-3/4" END CAP, STANDARD WEIGHT

END 4' PAVED SHLDR
BEGIN 8' PAVED SHLDR
BEGIN TP 7 CURB & GUTTER
STA. 112+75.00

112+87.00
47.30' RT
DE30012

112+91.00
57.00' RT
DE30013

RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE

2
NICHOLS, TA
DB 1456, P
SEE SHEI
60-0006, 60

ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn

Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

RELOCATION PLAN
STA. 109+50 TO STA. 114+00

City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: 1"=20'	
PROJ NO: CP-21-001	
SHEET: PLN-04	

I:\FILES\GIS\USERS\BENGINEER\PROJECTS\CP-21-001\PLANS\CP-21-001-PLN-04.DWG AUGUST 08, 2023 - 10:08AM

15
THOMAS, FRANK & KATHY
DB 2378, PG 1237
PB 6, PG 15
SEE SHEETS
60-0005, 60-0010

16
WHEAT, KEVIN E.
DB 2719, PG 30
PB 6, PG 15
SEE SHEET 60-0010

15
THOMAS, FRANK & KATHY
DB 2378, PG 1237
PB 6, PG 15
SEE SHEETS
60-0005, 60-0010

C- 1
BEGIN SPECIAL DITCH
STA. 114+00.00

114+96.52
42.00' LT
DE10038

114+99.68
52.00' LT
DE30033

115+25.00
42.00' LT
24.73' LT
DE10039
DE10040

END 4' FLAT-BOTTOM DITCH
STA. 114+90.00 LT
END 4' PAVED SHLDR
STA. 115+00.00,
16.00' LT
END SPECIAL DITCH
STA. 114+33.00 LT
BEGIN 4' FLAT-BOTTOM DITCH

115+00
115+11
14' ASPHT

115+35.00
52.00' LT
24.67' LT
DE30034
DE30035

3/4" LP GAS

RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE

1-8" STOPPER FITTING W/OUTLET, ANSI CLASS 300, 740# W.P. *(TAP & STOP)*
2-8"X90° L.R. ELBOW, STANDARD WEIGHT
2-8" END CAP, STANDARD WEIGHT

RETAIN IN PLACE EXISTING FARM TAP REGULATOR

PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE

REQ'D R/W
5'

8" HP GAS

2-8"X90° ELBOW, L.R. STANDARD WEIGHT

END PROJECT
P.I. 0015544
STA. 116+40.00
N 1548798.0998
E 2021608.6841

EXIST. R/W

129

122

PURGE AND ABANDON IN PLACE

12" DPM
INV=643.98

CUT & CAP

15" DPC
INV=646.66

RETAIN IN PLACE

N70°06'37.7"E

EXISTING 8-5/8" O.D. STEEL NATURAL GAS MAIN *(300 PSIG)*
FLOW

N 1548735.5435
E 2021429.2774

1-3/4" SERVICE TEE, 1,200# W.P.

15" DPC
INV=642.89

12" DPM
INV=642.24

12" DPM
INV=642.24 (+/-)

15" DPC
INV=641.[illegible]

CUT & CAP

PROPOSED 3/4" IPS-.113" W.T., F.B.E. COATED, SMLS B STEEL LINE PIPE

3/4" HP GAS

EXIST. R/W

56

1-CONNECTION TO EXISTING 3/4" STEEL 1-3/4" END CAP, STANDARD WEIGHT

RETAIN IN PLACE EXISTING FARM TAP REGULATOR

END CONSTRUCTION
STA. 115+40.00
MATCH EXISTING

END MILL & INLAY
STA. 115+25.00

RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE

3/4" LP GAS

REQ'D. R/W

ORANGE BARRIER FENCE
114+67.22
40.00' RT
DE10013

ND OVERLAY & WIDENING
BEGIN MILL & INLAY
STA. 115+00.00

END TP 7 CURB & GUTTER
STA. 115+00.00

END 8' PAVED SHLDR
STA. 115+04.00, 20.00' RT

115+11
14" CONC

115+25.00
25.27' RT DE10016
40.00' RT DE10017
50.00' RT DE30016

114+94.00
DE30015 40.00' RT
DE30017 50.00' RT

END R/W ACQUISITION
P.I. NO.: 0015544
STA. 155+35.00
N 1548763.5292
E 2021509.5383

2
NICHOLS, TAMMY J.
DB 1456, PG 26
SEE SHEETS
60-0006,
60-0009

9
SALMON, GAYLE G.
DB 335, PG 167
SEE SHEET 60-0009

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

HAWKINS, JILL A.

WHEAT, KEVIN E.
DB 2719, PG 30
PB 6, PG 15

117+00
118+00
118+32
POE 118+31.70

3/4" HP GAS

SANCHEZ, JOHN S. & ANDREA D.
DB 2051, PG 661

MATHIS, SUSAN JANE
DB 2176, PG 802

MATCH LINE STA. 114+00 DRAWING No. 13-0005

ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

RELOCATION PLAN
STA. 114+00 TO END PROJECT

City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: 1"=20'
PROJ NO: CP-21-001
SHEET: PLN-05

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JUDY DENISE &
JOSHUA SHANE JOHNSON
DB 2454, PG 709

ESTATE OF PATRICIA
DIANE BEARD
DB 1630, PG 653

10
ESTATE OF DIANE S. BEARD
DB 864, PG 563
SEE SHEET 60-0009

APPROX. LIMITS OF EXISTING
RESIDENTIAL BUILDING

NON-BUFFERED
STATE WATER A

END 4" CONC. DITCH PAVING
STA. 99+35.00 LT

11
MITCHELL, JAMES S.
DB 1507, PG 383
SEE SHEETS
60-0003, 60-0009

END 4' FLAT-BOTTOM DITCH
BEGIN 12' FLAT-BOTTOM DITCH
STA. 99+05.00 LT
BEGIN 4' FLAT-BOTTOM DITCH
BEGIN 4" CONC. DITCH PAVING
BEGIN SPECIAL DITCH
STA. 98+55.00 LT
BEGIN 4' PAVED SHLDR
STA. 98+55.00, 14.53' LT

PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE

99+44.00
93.00' LT
81.48' LT
DE30019
DE30018
TRACT 1

99+69.00
93.00' LT
DE30020
99+74.00
80.35' LT
DE30021
GPC/40'
T#11789

99+00.00
83.00' LT
DE10021

99+60
114" CONC

99+00

100+00

98+75.55
67.98' LT
DE10020

REQ'D. R/W

55 SY R-5 RAP
TP 3 18 IN

A- 1

BEGIN R/W ACQUISITION
P.I. NO.: 0015544
STA. 98+30.00
N 1548905.4572
E 2019849.5748

98+30.00
DE1001940.00' LT
DE1001825.00' LT

BEGIN CONSTRUCTION
P.I. 0015544
STA. 98+30.00
BEGIN MILL AND INLAY

ATT BURIED CABLE
FIBER-30

24" DPC
INV=612.73

24" DPC
INV=612.19

TEMPORARY GEORGIA
POWER FACILITIES

EXIST. R/W

EXISTING 8-5/8" O.D. STEEL
NATURAL GAS MAIN *(300 PSIG)*
FLOW

RETAIN IN PLACE

PURGE AND ABANDON IN PLACE

24" DPC
INV=612.63

24" DPC
INV=612.14

CONST. L

S76d2'35.8"E

S.R. 293/KINGSTON HWY

S76d2'35.8"E

N 1548867.0790
E 2020015.1857

3-397ACSR+1/0ALN S77d9'1.3"E

15" DPM
INV=630.83

15" DPM
INV=628.77

15" DPC
INV=617.55

EXIST. R/W

98+30.00
25.00' RT
DE10000

16

GPC/40
T#7333

A- 2

4ALDPX

END MILL AND INLAY
BEGIN OVERLAY AND WIDENING
STA. 98+55.00

98+30.00
60.00' RT
DE10002

REQ'D. R/W

99+10.64
59.97' RT
DE10001

GPC/30'

TEMPORARY GEORGIA
POWER FACILITIES

P.I. 99+53.20
DELTA = 066'35.50"

PARKER FIBERNET UNDERGROUND
FACILITY, TYPICALLY IN BACK 5 FEET
OF RW AND 3 TO 6 FEET DEEP. TWO
EACH 1-¼" HDPE DUCTS WITH ONE
OCCUPIED BY ONE 144 COUNT CABLE.

ATT AERIAL CABLE
BHAA-205 ON APPROVED SHLDR
BHAA-400 AT OPPOSITE SHLDR
FIBER-24
FIBER-48

BEGIN PROJECT
P.I. 0015544
STA. 97+30.00
N 1548928.1621
E 2019752.1865

ABANDON IN PLACE

BEGIN 4' FLAT-BOTTOM DITCH
BEGIN SPECIAL DITCH
STA. 98+55.00 RT

END SPECIAL DITCH
STA. 99+25.00 RT

PARKER FIBERNET UNDERGROUND FACILITY,
TYPICALLY IN BACK 5 FEET OF RW AND 3 TO 6
FEET DEEP. TWO EACH 1-¼" HDPE DUCTS WITI
ONE OCCUPIED BY ONE 144 COUNT CABLE.

EXIST. R/W

CANARD RD

EXIST. R/W

TERSA R. MATHIS &
LESLEY M. HATCHER
DB 2458, PG 12

TAMI FARMER &
ASHLEY BRITT FARMER
DB 1547, PG 222

1
WEAR, RALPH W.
DB 2466, PG 681
SEE SHEET 60-0007

2
NOE, TED
DB 2721, PG 545
SEE SHEETS
60-0003, 60-0007

MATCH LINE STA. 100+50

DRAWING No. 13-0002

ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

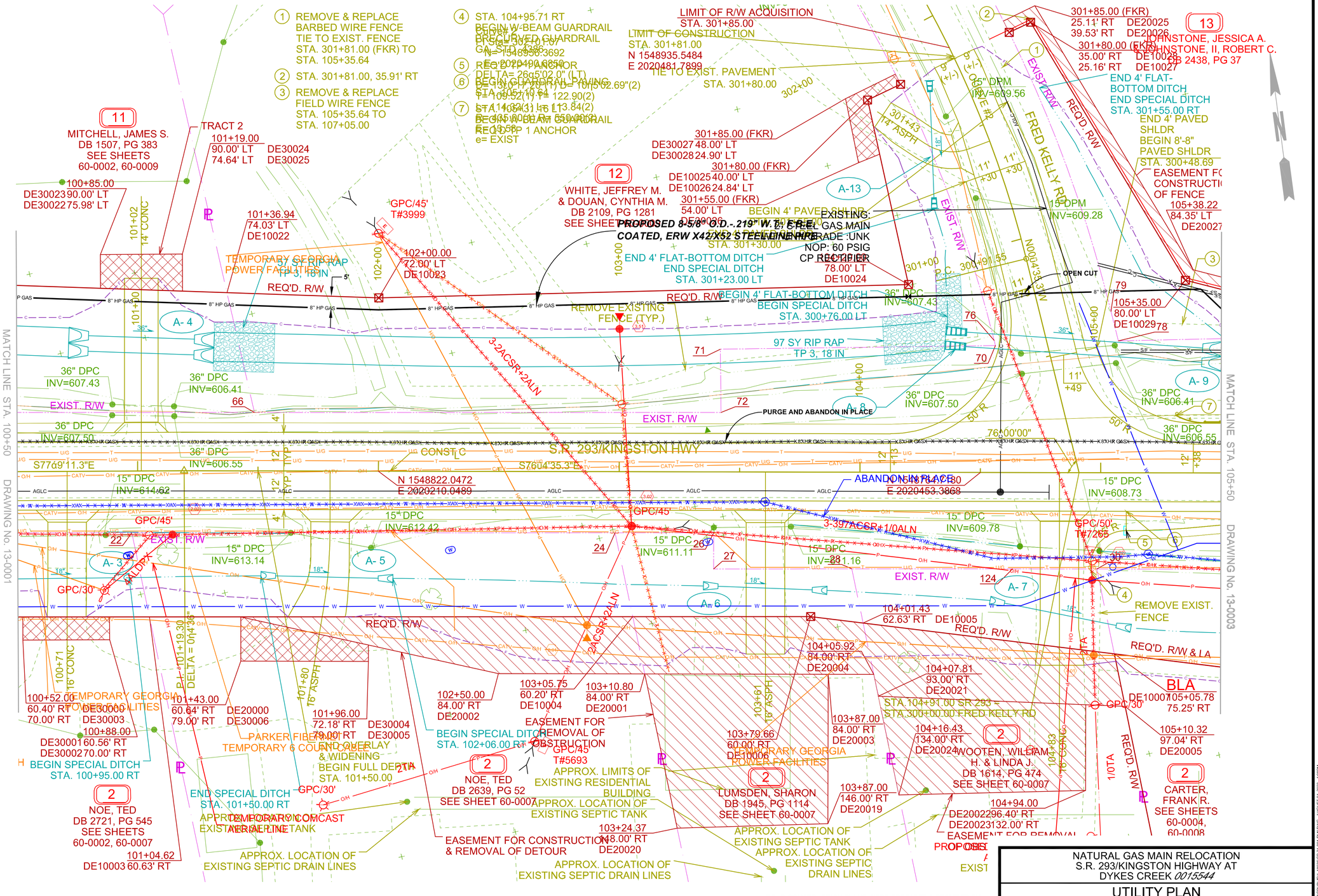
NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

UTILITY PLAN
BEGIN PROJECT TO STA. 100+50

City of Cartersville
GAS SYSTEM
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: 1"=20'
PROJ NO: CP-21-001
SHEET: UTI-01

C:\USERS\BFIBREY\APPDATA\LOCAL\TEMP\ACSBLISH_19336\CP-21-001-PLN.DWG AUGUST 04, 2023 - 4:09PM



ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
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Engineering, Planning, and Environmental Consultants
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Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

UTILITY PLAN
STA. 100+50 TO STA. 105+50

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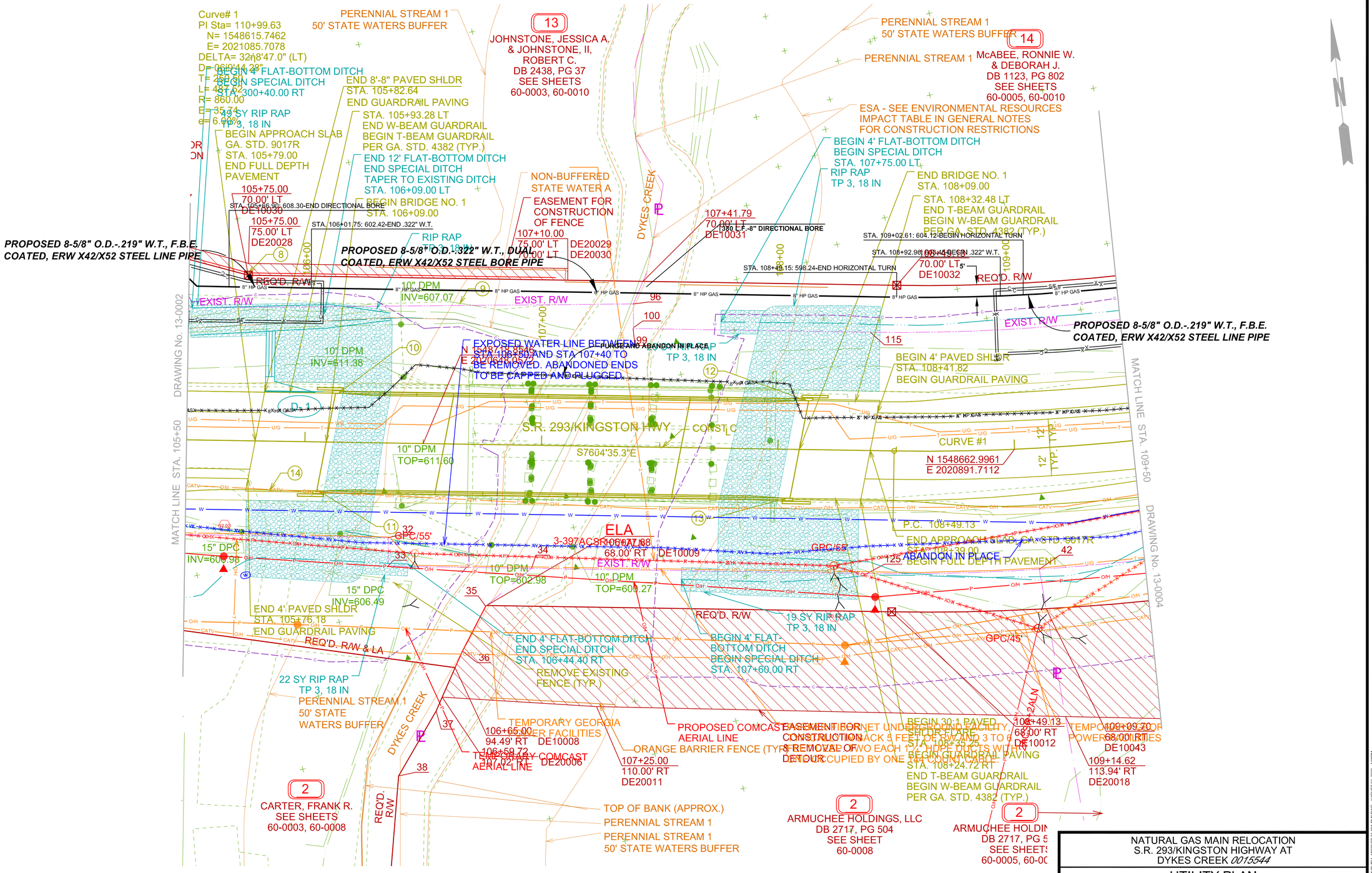
DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: 1"=20'	
PROJ NO: CP-21-001	
SHEET: UTI-02	

C:\USERS\BFISHER\APPDATA\LOCAL\TEMP\ACPUBLISH_19336\CP-21-001H-ROW3 AUGUST 04, 2023 - 4:08PM



ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
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NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

UTILITY PLAN
STA. 105+50 TO STA. 109+50

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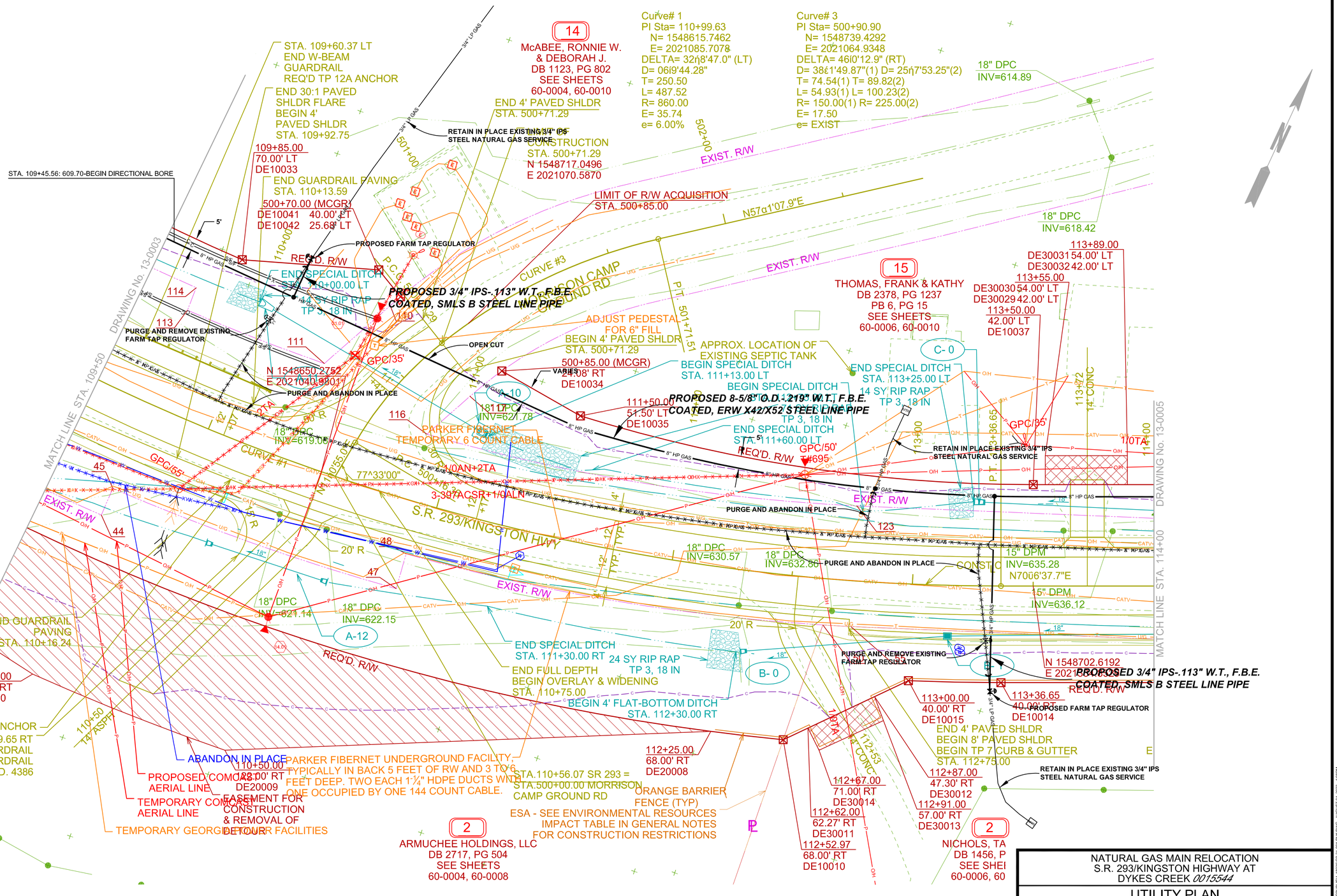
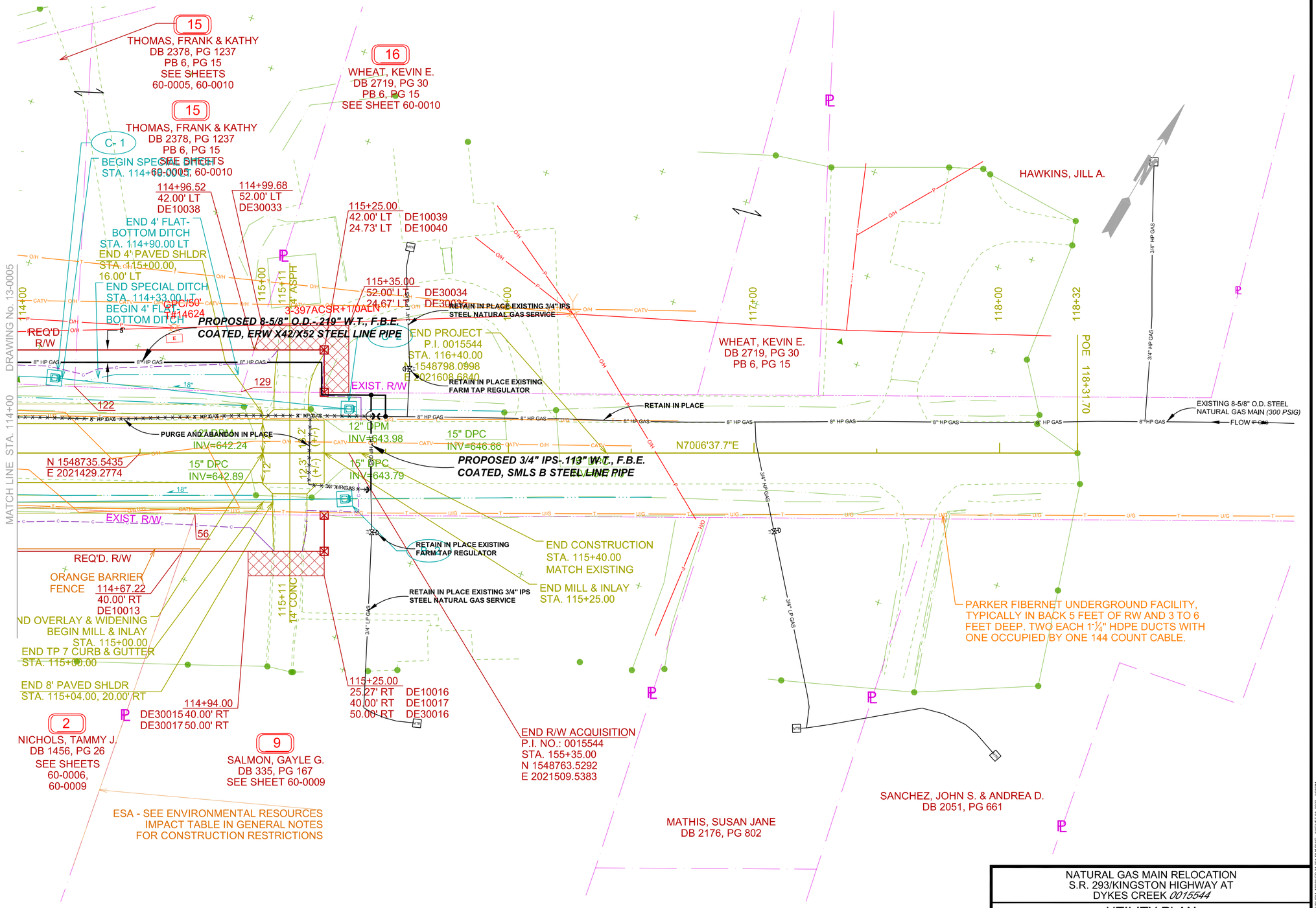
DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: 1"=20'
PROJ NO: CP-21-001
SHEET: UTI-03

C:\USERS\BFIBREY\APPDATA\LOCAL\TEMP\ACPUBLISH_19036\CP-21-001-HEN.DWG AUGUST 04, 2023 4:58PM


STA. 109+60.37 LT
END W-BEAM GUARDRAIL
REQ'D TP 12A ANCHOR
END 30:1 PAVED SHLDR FLARE
BEGIN 4' PAVED SHLDR
STA. 109+92.75
109+85.00
70.00' LT
DE10033
END GUARDRAIL PAVING
STA. 110+13.59
500+70.00 (MCGR)
DE10041 40.00' LT
DE10042 25.68' LT
STA. 109+45.56: 609.70-BEGIN DIRECTIONAL BORE
MATCH LINE STA. 109+50
DRAWING No. 13-0003
PROPOSED FARM TAP REGULATOR
REQ'D. R/W
END SPECIAL DITCH
STA. 110+00.00 LT
4 SY RIP RAP
TP 3, 18 IN
PROPOSED 3/4" IPS-.113" W.T., F.B.E. COATED, SMLS B STEEL LINE PIPE
PURGE AND REMOVE EXISTING FARM TAP REGULATOR
PURGE AND ABANDON IN PLACE
OPEN CUT
N 1548650.2752
E 2021040.9801
GPC/35'
18" DPC
INV=619.06
PARKER FIBERNET
TEMPORARY 6 COUNT CABLE
3-397ACSR+1/0ALR
77^33'00"
S.R. 293/KINGSTON HWY
EXIST. R/W
END GUARDRAIL PAVING
STA. 110+16.24
109+75.00
122.00' RT
DE20010
REQ'D TP 1 ANCHOR
STA. 110+29.65 RT
D W-BEAM GUARDRAIL
RECURVED GUARDRAIL
GA. STD. 4386
ABANDON IN PLACE
PROPOSED COMCAST AERIAL LINE
TEMPORARY COMCAST AERIAL LINE
TEMPORARY GEORGIA POWER FACILITIES
110+50.00
22.00' RT
DE20009
EASEMENT FOR CONSTRUCTION & REMOVAL OF DETOUR
18" DPC
INV=621.14
18" DPC
INV=622.15
A-12
14
McABEE, RONNIE W.
& DEBORAH J.
DB 1123, PG 802
SEE SHEETS
60-0004, 60-0010
END 4' PAVED SHLDR
STA. 500+71.29
RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE
CONSTRUCTION
STA. 500+71.29
N 1548717.0496
E 2021070.5870
Curve# 1
PI Sta= 110+99.63
N= 1548615.7462
E= 2021085.7078
DELTA= 32ñ8'47.0" (LT)
D= 06ï9'44.28"
T= 250.50
L= 487.52
R= 860.00
E= 35.74
e= 6.00%
Curve# 3
PI Sta= 500+90.90
N= 1548739.4292
E= 2021064.9348
DELTA= 46ï0'12.9" (RT)
D= 38ï1'49.87"(1) D= 25ñ7'53.25"(2)
T= 74.54(1) T= 89.82(2)
L= 54.93(1) L= 100.23(2)
R= 150.00(1) R= 225.00(2)
E= 17.50
e= EXIST
18" DPC
INV=614.89
18" DPC
INV=618.42
LIMIT OF R/W ACQUISITION
STA. 500+85.00
N57ª1'07.9"E
EXIST. R/W
CURVE #3
JOHNSON CAMP GROUND RD
P.T. 501+71.51
ADJUST PEDESTAL FOR 6" FILL
BEGIN 4' PAVED SHLDR
STA. 500+71.29
500+85.00 (MCGR)
DE10008 RT
DE10034
VARIES
A-10
18" DPC
INV=621.78
111+50.00
51.50' LT
DE10035
PROPOSED 8-5/8" O.D.-.219" W.T. F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE
APPROX. LOCATION OF EXISTING SEPTIC TANK
BEGIN SPECIAL DITCH
STA. 111+13.00 LT
BEGIN SPECIAL DITCH
TP 3, 18 IN
END SPECIAL DITCH
STA. 111+60.00 LT
REQ'D. R/W
GPC/50'
#695
15
THOMAS, FRANK & KATHY
DB 2378, PG 1237
PB 6, PG 15
SEE SHEETS
60-0006, 60-0010
C- 0
END SPECIAL DITCH
STA. 113+25.00 LT
14 SY RIP RAP
TP 3, 18 IN
113+89.00
DE30031 54.00' LT
DE30032 42.00' LT
113+55.00
DE30030 54.00' LT
DE30029 42.00' LT
113+50.00
42.00' LT
DE10037
113+22
14" CONC
113+36.65
GPC/35'
RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE
EXIST. R/W
PURGE AND ABANDON IN PLACE
123
18" DPC
INV=630.57
18" DPC
INV=632.86
PURGE AND ABANDON IN PLACE
CONSTC
15" DPM
INV=635.28
N7006'37.7"E
15" DPM
INV=636.12
PURGE AND REMOVE EXISTING FARM TAP REGULATOR
N 1548702.6192
E 2021
PROPOSED 3/4" IPS-.113" W.T., F.B.E. COATED, SMLS B STEEL LINE PIPE
REQ'D. R/W
PROPOSED FARM TAP REGULATOR
113+36.65
40.00' RT
DE10014
113+00.00
40.00' RT
DE10015
END 4' PAVED SHLDR
BEGIN 8' PAVED SHLDR
BEGIN TP 7 CURB & GUTTER
STA. 112+75.00
112+87.00
47.30' RT
DE30012
112+91.00
57.00' RT
DE30013
RETAIN IN PLACE EXISTING 3/4" IPS STEEL NATURAL GAS SERVICE
MATCH LINE STA. 114+00
DRAWING No. 13-0005
END SPECIAL DITCH
STA. 111+30.00 RT
24 SY RIP RAP
TP 3, 18 IN
END FULL DEPTH
BEGIN OVERLAY & WIDENING
STA. 110+75.00
BEGIN 4' FLAT-BOTTOM DITCH
STA. 112+30.00 RT
B- 0
20' R
112+25.00
68.00' RT
DE20008
ORANGE BARRIER FENCE (TYP)
STA.110+56.07 SR 293 = STA.500+00.00 MORRISON CAMP GROUND RD
ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS
PARKER FIBERNET UNDERGROUND FACILITY, TYPICALLY IN BACK 5 FEET OF RW AND 3 TO 6 FEET DEEP. TWO EACH 1¼" HDPE DUCTS WITH ONE OCCUPIED BY ONE 144 COUNT CABLE.
2
ARMUCHEE HOLDINGS, LLC
DB 2717, PG 504
SEE SHEETS
60-0004, 60-0008
112+67.00
71.00' RT
DE30014
112+62.00
62.27' RT
DE30011
112+52.97
68.00' RT
DE10010
112+53
14" CONC
2
NICHOLS, TA
DB 1456, P
SEE SHEI
60-0006, 60
NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK 0015544
UTILITY PLAN
STA. 109+50 TO STA. 114+00
ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)
Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092
City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org
DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: 1"=20'
PROJ NO: CP-21-001
SHEET: UTI-04
C:\USERS\BFISHER\APPDATA\LOCAL\TEMP\ACPUBLISH_19336\CP-21-001H-NDWG AUGUST 04, 2023 - 4:08PM



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NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

UTILITY PLAN
STA. 114+00 TO END PROJECT

City of Cartersville
GAS SYSTEM
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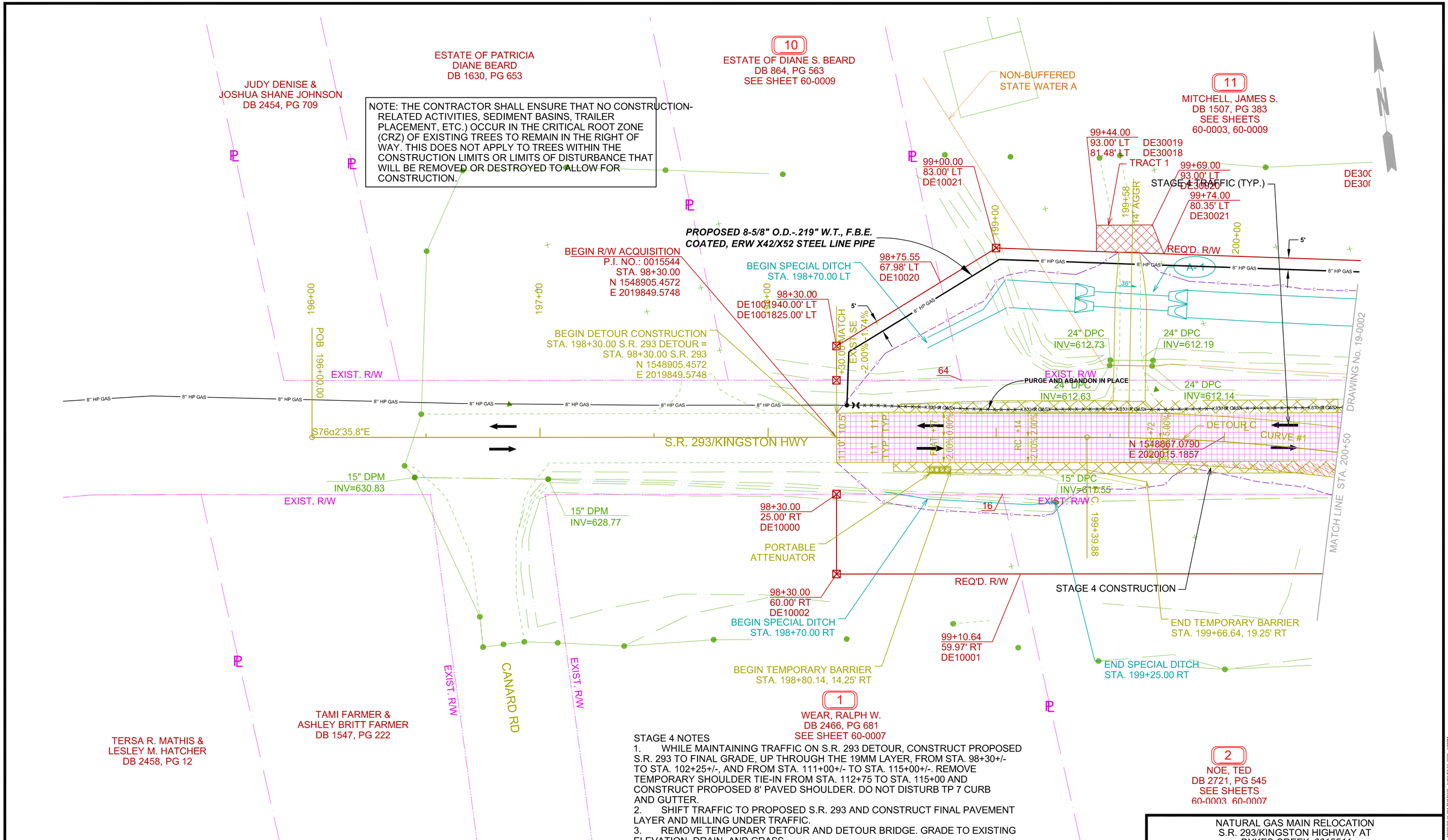
DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: 1"=20'	
PROJ NO: CP-21-001	
SHEET: UTI-05	



STAGE 4 NOTES

1. WHILE MAINTAINING TRAFFIC ON S.R. 293 DETOUR, CONSTRUCT PROPOSED S.R. 293 TO FINAL GRADE, UP THROUGH THE 19MM LAYER, FROM STA. 98+30+/- TO STA. 102+25+/-, AND FROM STA. 111+00+/- TO STA. 115+00+/-. REMOVE TEMPORARY SHOULDER TIE-IN FROM STA. 112+75 TO STA. 115+00 AND CONSTRUCT PROPOSED 8' PAVED SHOULDER. DO NOT DISTURB TP 7 CURB AND GUTTER.
2. SHIFT TRAFFIC TO PROPOSED S.R. 293 AND CONSTRUCT FINAL PAVEMENT LAYER AND MILLING UNDER TRAFFIC.
3. REMOVE TEMPORARY DETOUR AND DETOUR BRIDGE. GRADE TO EXISTING ELEVATION, DRAIN, AND GRASS.

ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

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Engineering, Planning, and Environmental Consultants
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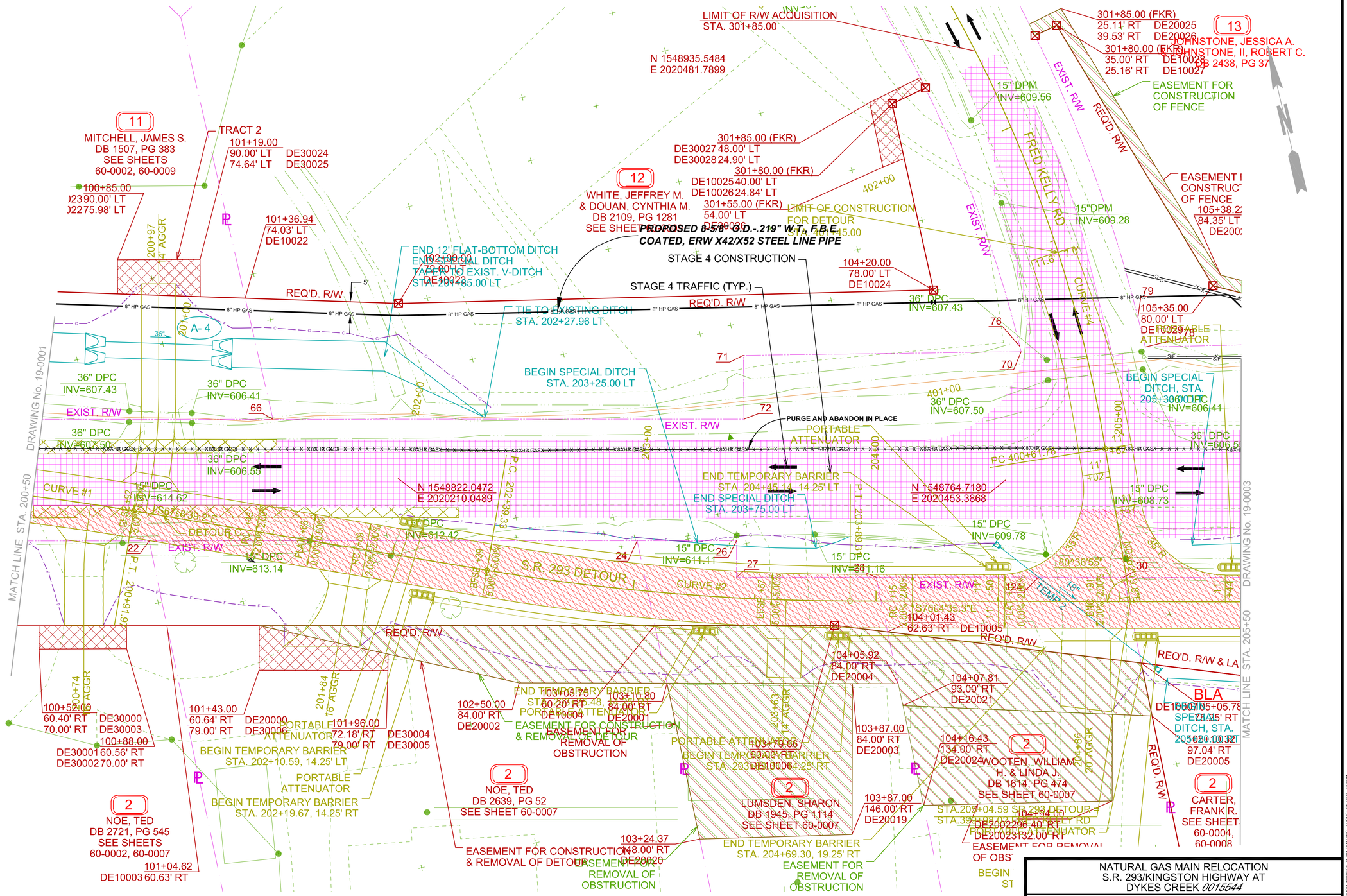
Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DETOUR PLAN
BEGIN DETOUR TO STA. 200+50

City of Cartersville
GAS SYSTEM
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: 1"=20'
PROJ NO: CP-21-001
SHEET: DETOUR-01


11
MITCHELL, JAMES S.
DB 1507, PG 383
SEE SHEETS
60-0002, 60-0009
TRACT 2
101+19.00
90.00' LT DE30024
74.64' LT DE30025
100+85.00
90.00' LT
75.98' LT
200+97
4" AGGR
101+36.94
74.03' LT
DE10022
REQ'D. R/W
5'
END 12' FLAT-BOTTOM DITCH
END SPECIAL DITCH
TAPER TO EXIST. V-DITCH
STA. 201+85.00 LT
102+00.00
79.00' LT
DE10023
TIE TO EXISTING DITCH
STA. 202+27.96 LT
8" HP GAS
A- 4
200+00
36" DPC
INV=607.43
36" DPC
INV=606.41
66
EXIST. R/W
36" DPC
INV=607.50
36" DPC
INV=606.55
202+00
BEGIN SPECIAL DITCH
STA. 203+25.00 LT
71
72
EXIST. R/W
PURGE AND ABANDON IN PLACE
PORTABLE
ATTENUATOR
END TEMPORARY BARRIER
STA. 204+45.14, 14.25' LT
END SPECIAL DITCH
STA. 203+75.00 LT
204+00
N 1548764.7180
E 2020453.3868
401+00
36" DPC
INV=607.50
PC 400+61.76
11"
+02
15" DPC
INV=608.73
CURVE #1
15" DPC
INV=614.62
S67°39'39"E
DETOUR C/L
EXIST. R/W
22
15" DPC
INV=613.14
N 1548822.0472
E 2020210.0489
202+38.33
36" DPC
INV=612.42
24
15" DPC
INV=611.11
26
27
15" DPC
INV=611.16
S.R. 293 DETOUR
CURVE #2
EXIST. R/W
124
S7604'36.3"E
104+01.43
62.63' RT DE10005
93
REQ'D. R/W
104+05.92
84.00' RT
DE20004
104+07.81
93.00' RT
DE20021
REQ'D. R/W & LA
BLA
DE10007
105+05.78
73.25' RT
SPECIAL
DITCH, STA.
205+00.00
97.04' RT
DE20005
2
CARTER,
FRANK R.
SEE SHEET
60-0004,
60-0008
REQ'D. R/W
MATCH LINE STA. 205+50
DRAWING No. 19-0003
MATCH LINE STA. 200+50
DRAWING No. 19-0001
200+74
4" AGGR
100+52.00
60.40' RT DE30000
70.00' RT DE30003
100+88.00
DE30001 60.56' RT
DE30002 70.00' RT
2
NOE, TED
DB 2721, PG 545
SEE SHEETS
60-0002, 60-0007
101+04.62
DE10003 60.63' RT
101+43.00
60.64' RT DE20000
79.00' RT DE30006
201+84
16" AGGR
PORTABLE
ATTENUATOR
101+96.00
72.18' RT DE30004
79.00' RT DE30005
BEGIN TEMPORARY BARRIER
STA. 202+10.59, 14.25' LT
PORTABLE
ATTENUATOR
BEGIN TEMPORARY BARRIER
STA. 202+19.67, 14.25' RT
102+50.00
84.00' RT
DE20002
END TEMPORARY BARRIER
STA. 203+08.75
60.20' RT
PORTABLE ATTENUATOR
DE10004
EASEMENT FOR CONSTRUCTION
& REMOVAL OF DETOUR
EASEMENT FOR
REMOVAL OF
OBSTRUCTION
103+10.80
84.00' RT
DE20001
2
NOE, TED
DB 2639, PG 52
SEE SHEET 60-0007
EASEMENT FOR CONSTRUCTION
& REMOVAL OF DETOUR
103+24.37
48.00' RT
DE20020
EASEMENT FOR
REMOVAL OF
OBSTRUCTION
PORTABLE ATTENUATOR
BEGIN TEMPORARY BARRIER
STA. 203+79.66
60.00' RT
DE10006 4.25' RT
2
LUMSDEN, SHARON
DB 1945, PG 1114
SEE SHEET 60-0007
END TEMPORARY BARRIER
STA. 204+69.30, 19.25' RT
EASEMENT FOR
REMOVAL OF
OBSTRUCTION
103+87.00
84.00' RT
DE20003
103+87.00
146.00' RT
DE20019
104+16.43
134.00' RT
DE20024
2
WOOTEN, WILLIAM
H. & LINDA J.
DB 1614, PG 474
SEE SHEET 60-0007
STA.205+04.59 SR 293 DETOUR
STA.399+08.02 KINGSTON HWY
104+94.00
DE20029 40' RT
DE20023 32.00 RT
EASEMENT FOR REMOVAL
OF OBS
BEGIN
ST
LIMIT OF R/W ACQUISITION
STA. 301+85.00
N 1548935.5484
E 2020481.7899
301+85.00 (FKR)
DE30027 48.00' LT
DE30028 24.90' LT
301+80.00 (FKR)
DE10025 40.00' LT
DE10026 24.84' LT
301+55.00 (FKR)
54.00' LT
DE30026
12
WHITE, JEFFREY M.
& DOUAN, CYNTHIA M.
DB 2109, PG 1281
SEE SHEET 60-0007
PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E.
COATED, ERW X42/X52 STEEL LINE PIPE
STAGE 4 CONSTRUCTION
STAGE 4 TRAFFIC (TYP.)
REQ'D. R/W
104+20.00
78.00' LT
DE10024
36" DPC
INV=607.43
LIMIT OF CONSTRUCTION
FOR DETOUR
STA. 401+45.00
402+00
EXIST. R/W
15"DPM
INV=609.28
15" DPM
INV=609.56
FRED KELLY RD
EXIST. R/W
REQ'D. R/W
301+85.00 (FKR)
25.11' RT DE20025
39.53' RT DE20026
301+80.00 (FKR)
35.00' RT DE10028
25.16' RT DE10027
13
JOHNSTONE, JESSICA A.
& JOHNSTONE, II, ROBERT C.
DB 2438, PG 37
EASEMENT FOR
CONSTRUCTION
OF FENCE
EASEMENT F
CONSTRUC
OF FENCE
105+38.2
84.35' LT
DE200
79
105+35.00
80.00' LT
DE10029
78
PORTABLE
ATTENUATOR
CURVE #4
76
70
BEGIN SPECIAL
DITCH, STA.
205+38.00
36" DPC
INV=606.41
36" DPC
INV=606.5
15" DPC
INV=606.73
80°36'55"
30
15" DPC
INV=609.78
EXIST. R/W
TEMP 2
18"
FLARE
END
REQ'D. R/W
ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)
Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092
NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK 0015544
DETOUR PLAN
STA. 200+50 TO STA. 205+50
City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org
DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: 1"=20'
PROJ NO: CP-21-001
SHEET: DETOUR-02
C:\USERS\BFISHER\APPDATA\LOCAL\TEMP\ACPUBLISH_16936\CP-21-001-FN.DWG - AUGUST 04, 2023 - 4:58PM

PERENNIAL STREAM 1
50' STATE WATERS BUFFER

13
JOHNSTONE, JESSICA A.
& JOHNSTONE, II,
ROBERT C.
DB 2438, PG 37
SEE SHEETS
60-0003, 60-0010

PERENNIAL STREAM 1
50' STATE WATERS BUFFER

14
McABEE, RONNIE W.
& DEBORAH J.
DB 1123, PG 802
SEE SHEETS
60-0005, 60-0010

PERENNIAL STREAM 1

ESA - SEE ENVIRONMENTAL RESOURCES
IMPACT TABLE IN GENERAL NOTES
FOR CONSTRUCTION RESTRICTIONS

BEGIN DETOUR BRIDGE
STA. 206+37.79
END TEMPORARY BARRIER,
14.25' LT/RT

FOR
TION
2
27

STAGE 4 TRAFFIC (TYP.)

BEGIN TEMPORARY
BARRIER
STA. 205+51.02,
14.25' LT

105+75.00
70.00' LT
DE10030

PORTABLE
GENERATOR

105+75.00
75.00' LT
DE20028

BEGIN TEMPORARY
BARRIER
STA. 205+78.02,
35.54' LT

STA. 105+26.50: 608.30-END DIRECTIONAL BORE

STA. 106+01.75: 602.42-END .322" W.T.

NON-BUFFERED
STATE WATER A

EASEMENT FOR
CONSTRUCTION
OF FENCE
107+10.00
75.00' LT
70.00' LT
DE20029
DE20030

DYKES CREEK

107+41.79
70.00' LT
DE10031

380 L.F.-8" DIRECTIONAL BORE

STAGE 4 CONSTRUCTION

STA. 109+02.61: 604.12-BEGIN HORIZONTAL TURN

STA. 108+92.98: 608.41-BEGIN .322" W.T.

108+49.24
70.00' LT
DE10032

STA. 108+49.15: 598.24-END HORIZONTAL TURN

REQ'D. R/W

EXIST. R/W

PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE

PROPOSED 8-5/8" O.D.-.322" W.T., DUAL COATED, ERW X42/X52 STEEL BORE PIPE

8" HP GAS

10" DPM
INV=607.07

EXIST. R/W

96

100

99

PURGE AND ABANDON IN PLACE

END DETOUR BRIDGE
STA. 207+57.79
BEGIN TEMPORARY BARRIER,
14.25' LT/RT

END TEMPORARY BARRIER
STA. 209+16.81, 33.88' LT

115

113

EXIST. R/W

PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE

10" DPM
INV=611.38

END SPECIAL DITCH
N 1548713.8540
E 2020848.0572
207+00.00 LT

X" MP GAS

206+00

208+00

209+00

10" DPM
TOP=611.60

TEMPORARY SHORING
AS NEEDED

TEMPORARY SHORING
AS NEEDED

N 1548662.9961
E 2020891.7112

208+83.16

MATCH LINE STA. 210+00

DRAWING No. 19-0004

DRAWING No. 19-0002

MATCH LINE STA. 205+50

15" DPC
INV=606.98

S.R. 293 DETOUR

32

33

34

35

36

37

38

45

42

125

10" DPM
TOP=602.98

15" DPC
INV=606.49

10" DPM
TOP=603.27

ELA
106+77.88
68.00' RT
DE10009
EXIST. R/W

ENG
2.00%

11'
TYP.
11'

FLAT
0.00%

2.00%

DETOUR C

RC
2.00%

CURVE #3

BFSE
2.00%

EXIST. R/W

REQ'D. R/W

STAGE 4 CONSTRUCTION

REQ'D. R/W & LA

48 SY RIP RAP
TP 3, 18 IN

PERENNIAL STREAM 1
50' STATE
WATERS BUFFER

DYKES CREEK

58 SY RIP RAP
TP 3, 18 IN

BEGIN SPECIAL DITCH
STA. 207+00.00 RT

106+65.00
94.49' RT
DE10008

106+59.72
107.02' RT
DE20006

107+45.00 RT

ORANGE BARRIER FENCE (TYP.)

107+25.00
110.00' RT
DE20011

EASEMENT FOR
CONSTRUCTION
& REMOVAL OF
DETOUR

108+49.13
68.00' RT
DE10012

109+09.70
68.00' RT
DE10043

109+14.62
113.94' RT
DE20018

109+75.00
122.00' RT
DE20010

EASEMENT FOR CONSTRUCTION
& REMOVAL OF DETOUR

2
CARTER, FRANK R.
SEE SHEETS
60-0003, 60-0008

REQ'D.
R/W

TOP OF BANK (APPROX.)
PERENNIAL STREAM 1
PERENNIAL STREAM 1
50' STATE WATERS BUFFER

2
ARMUCHEE HOLDINGS, LLC
DB 2717, PG 504
SEE SHEET
60-0008

2
ARMUCHEE HOLDIN
DB 2717, PG 5
SEE SHEETS
60-0005, 60-0(

ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DETOUR PLAN
STA. 205+50 TO STA. 210+00

City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.
DATE: AUGUST 2023
SCALE: 1"=20'
PROJ NO: CP-21-001
SHEET: DETOUR-03

C:\USERS\BFREY\APPDATA\LOCAL\TEMP\ACPUBLISH_18036\CP-21-001-PLN.DWG AUGUST 04, 2023 - 4:59PM

END TEMPORARY BARRIER
STA. 210+21.22, 14.25' LT

RETAIN IN PLACE EXISTING 3/4" IPS
STEEL NATURAL GAS SERVICE

LIMIT OF CONSTRUCTION
FOR DETOUR
N 1548717.0486
E 2021070.5870

602+00

EXIST. R/W

LIMIT OF R/W ACQUISITION
STA. 500+85.00

N57°41'07.9"E

MORRISON CAMP GROUND RD

EXIST. R/W

P.T. 601+71.51

601+00

500+70.00 (MCGR)
DE10041 40.00' LT
DE10042 25.68' LT

P.C.C. 600+71.29

PORTABLE
ATTENUATOR

PROPOSED FARM TAP REGULATOR

REQ'D. R/W

5'

PROPOSED 3/4" IPS-.113" W.T., F.B.E.
COATED, SMLS B STEEL LINE PIPE

110

PURGE AND REMOVE EXISTING
FARM TAP REGULATOR

111

OPEN CUT

BEGIN SPECIAL DITCH
STA. 211+17.00 LT

500+85.00 (MCGR)
24.08' RT
DE10034

PORTABLE ATTENUATOR

BEGIN TEMPORARY BARRIER
STA. 211+48.02, 44.86' LT

VARIES

111+50.00
51.50' LT
DE10035

PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E.
COATED, ERW X42/X52 STEEL LINE PIPE

STAGE 4 TRAFFIC (TYP.)

N 1548650.2752
E 2021040.9801

PURGE AND ABANDON IN PLACE

116

18" DPC
INV=621.78

18" DPC
INV=619.06

211+00

P.C. 600+16.36

P.T. 211+58.09

EXIST. R/W

PURGE AND ABANDON IN PLACE

123

18" DPC
INV=630.57

18" DPC
INV=632.56

PURGE AND ABANDON IN PLACE

N7006'37.7"E

15" DPM
INV=635.28

DETOUR C

15" DPM
INV=636.12

S.R. 293 DETOUR

N 1548735.5435
E 2021429.2774

12" DPM
INV=642.24

15" DPC
INV=642.39

12" DPM
INV=643.98

N7006'37.7"E

15" DPC
INV=643.79

EXIST. R/W

122

56

18" DPC
INV=618.42

113+89.00
DE30031 54.00' LT
DE30032 42.00' LT

113+55.00
DE30030 54.00' LT
DE30029 42.00' LT

113+50.00
42.00' LT
DE10037

213+96
14' AGGR

214+00

213+00

15
THOMAS, FRANK & KATHY
DB 2378, PG 1237
PB 6, PG 15
SEE SHEETS
60-0006, 60-0010

15
THOMAS, FRANK & KATHY
DB 2378, PG 123
PB 6, PG 15
SEE SHEETS
60-0005, 60-0010

15
THOMAS, FRANK & KATHY
DB 2378, PG 1237
PB 6, PG 15
SEE SHEETS
60-0005, 60-0010

16
WHEAT, KEV
DB 2719, PG
PB 6, PG 1
SEE SHEET 60

114+96.52
42.00' LT
DE10038

114+99.68
52.00' LT
DE30033

115+25.00
42.00' LT
24.73' LT

115+35.00
52.00' LT
24.67' LT

END SPECIAL DITCH
STA. 215+03.37 LT

PORTABLE
ATTENUATOR

END TEMPORARY BARRIER
STA. 215+00.00, 15.40' LT

BEGIN TEMPORARY BARRIER
STA. 214+11.37, 22.51' LT

END DETOUR CONSTRUCTION
STA. 215+23.78 S.R. 293 DE
STA. 115+00.00 S.R. 293

215+00

PORTABLE ATTENUATOR
END TEMPORARY BARRIER
STA. 214+00.75, 19.17' LT

RETAIN IN PLACE EXISTING 3/4" IPS
STEEL NATURAL GAS SERVICE

STAGE 4 CONSTRUCTION C- 0

C- 1

REQ'D.
R/W

EXIST. R/W

+23.16 MATCH
EXIST. SE

1.28% -1.32%

129

EXIST. R/W

MATCH LINE STA. 210+00

DRAWING No. 60-0003

210+00

CURVE #3

T.P.I. 211+22.77

T.P.I. 211+97.92

T.P.I. 211+40.55.0"E

35' R

70°28'13"

48

47

EP&B 4.0
6.00'x6.00'

TYP. 4.0'x4.0'

EXIST. R/W

EP&B 4.0
2.00'x6.00'

18" DPC
INV=621.14

18" DPC
INV=622.15

18"
TEMP 3

REQ'D. R/W

210+35
14' AGGR

EASEMENT FOR
CONSTRUCTION
& REMOVAL
OF DETOUR

110+50.00
122.00' RT
DE20009

STAGE 4 CONSTRUCTION

PORTABLE
ATTENUATOR

EASEMENT FOR
CONSTRUCTION
& REMOVAL OF
DETOUR

END TEMPORARY BARRIER
STA. 210+19.25' RT

BEGIN TEMPORARY BARRIER
STA. 210+64.15, 14.25' RT

STA. 210+62.90 SR 293 DETOUR =
STA. 599+58.13 MORRISON
CAMP GROUND RD

2
ARMUCHEE HOLDINGS, LLC
DB 2717, PG 504
SEE SHEETS
60-0004, 60-0008

ESA - SEE ENVIRONMENTAL RESOURCES
IMPACT TABLE IN GENERAL NOTES
FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER
FENCE (TYP)

END SPECIAL DITCH
STA. 212+50.00 RT

END TEMPORARY BARRIER
STA. 212+60.69, 14.25' LT

112+25.00
68.00' RT
DE20008

112+62.00
62.27' RT
DE30011

112+52.97
68.00' RT
DE10010

112+67.00
71.00' RT
DE30014

212+77
14' AGGR

B- 0

18"

PURGE AND REMOVE EXISTING
FARM TAP REGULATOR

113+00.00
40.00' RT
DE10015

113+36.65
40.00' RT
DE10014

PROPOSED FARM TAP REGULATOR

PROPOSED 3/4" IPS-.113" W.T., F.B.E.
COATED, SMLS B STEEL LINE PIPE

REQ'D. R/W

REQ'D. R/W

STAGE 4 CONSTRUCTION

ORANGE BARRIER
FENCE 114+67.22

END TEMPORARY BARRIER & GUTTER
STA. 213+23.78

DE10013

BEGIN TP 7 CURB & GUTTER
STA. 212+97.41

RETAIN IN PLACE EXISTING 3/4" IPS
STEEL NATURAL GAS SERVICE

112+87.00
47.30' RT
DE30012

112+91.00
57.00' RT
DE30013

2
NICHOLS, TAMMY J.
DB 1456, PG 26
SEE SHEETS
60-0006, 60-0009

HONEA HOUSE

2
NICHOLS, TAMMY J.
DB 1456, PG 26
SEE SHEETS
60-0006,
60-0009

114+94.00
DE30015 40.00' RT
DE30017 50.00' RT

9
SALMON, GAYLE G.
DB 335, PG 167
SEE SHEET 60-0009

115+25.00
25.27' RT
40.00' RT
50.00' RT

ESA - SEE ENVIRONMENTAL RESOURCES

B- 2

3/4" LP GAS

ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DETOUR PLAN
STA. 210+00 TO END DETOUR

City of Cartersville
GAS SYSTEM
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED: B.S.F.	
DATE: AUGUST 2023	
SCALE: 1"=20'	
PROJ NO: CP-21-001	
SHEET: DETOUR-04	

C:\USERS\BFISHER\APPDATA\LOCAL\TEMP\ACPUBLISH_16036\CP-21-001-PLN.DWG AUGUST 04, 2023 - 4:08PM

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DYKES CREEK DIRECTIONAL BORE PROFILE
STA. 104+60 TO STA. 110+60

ROAD CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED APRIL 10, 2023)

Kimley»Horn
Engineering, Planning, and Environmental Consultants
Suite 350, 3930 East Jones Bridge Road
Peachtree Corners, Georgia 30092

City of Cartersville
G A S S Y S T E M
P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

DESIGNED:	B.S.F.
DATE:	AUGUST 2023
SCALE:	1"=20'
PROJ NO:	CP-21-001
SHEET:	PRF-01

SCALE: 1"=20' HORIZONTAL
1"=5' VERTICAL

STA. 104+70.33: 612.00-FRED KELLY ROAD
STA. 105+66.90: 608.30-END DIRECTIONAL BORE
STA. 105+87.64: 603.63-END FIELD BEND
STA. 106+01.75: 602.42-BEGIN FIELD BEND/END .322" W.T.
STA. 106+91.21: 607.00-TOP OF CREEK BANK
STA. 107+26.47: 603.00-BOTTOM OF CREEK BANK
STA. 107+54.69: 603.00-BOTTOM OF CREEK BANK
STA. 107+58.52: 606.00-TOP OF CREEK BANK
STA. 108+49.15: 598.24-END HORIZONTAL TURN
STA. 108+92.96: 603.45-END FIELD BEND
STA. 109+02.61: 604.12-BEGIN FIELD BEND
STA. 109+45.56: 609.70-BEGIN DIRECTIONAL BORE
STA. 110+58.92: 623.00-MORRISON CAMP GROUND ROAD

8°49'31" EXIT ANGLE
4°34'07" ENTRANCE ANGLE
100' BEND RADIUS
800' TURN RADIUS
10'-0" MINIMUM
100' BEND RADIUS
800' TURN RADIUS

PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE

PROPOSED 8-5/8" O.D.-.322" W.T., DUAL COATED, ERW X42/X52 STEEL BORE PIPE

PROPOSED 8-5/8" O.D.-.219" W.T., F.B.E. COATED, ERW X42/X52 STEEL LINE PIPE

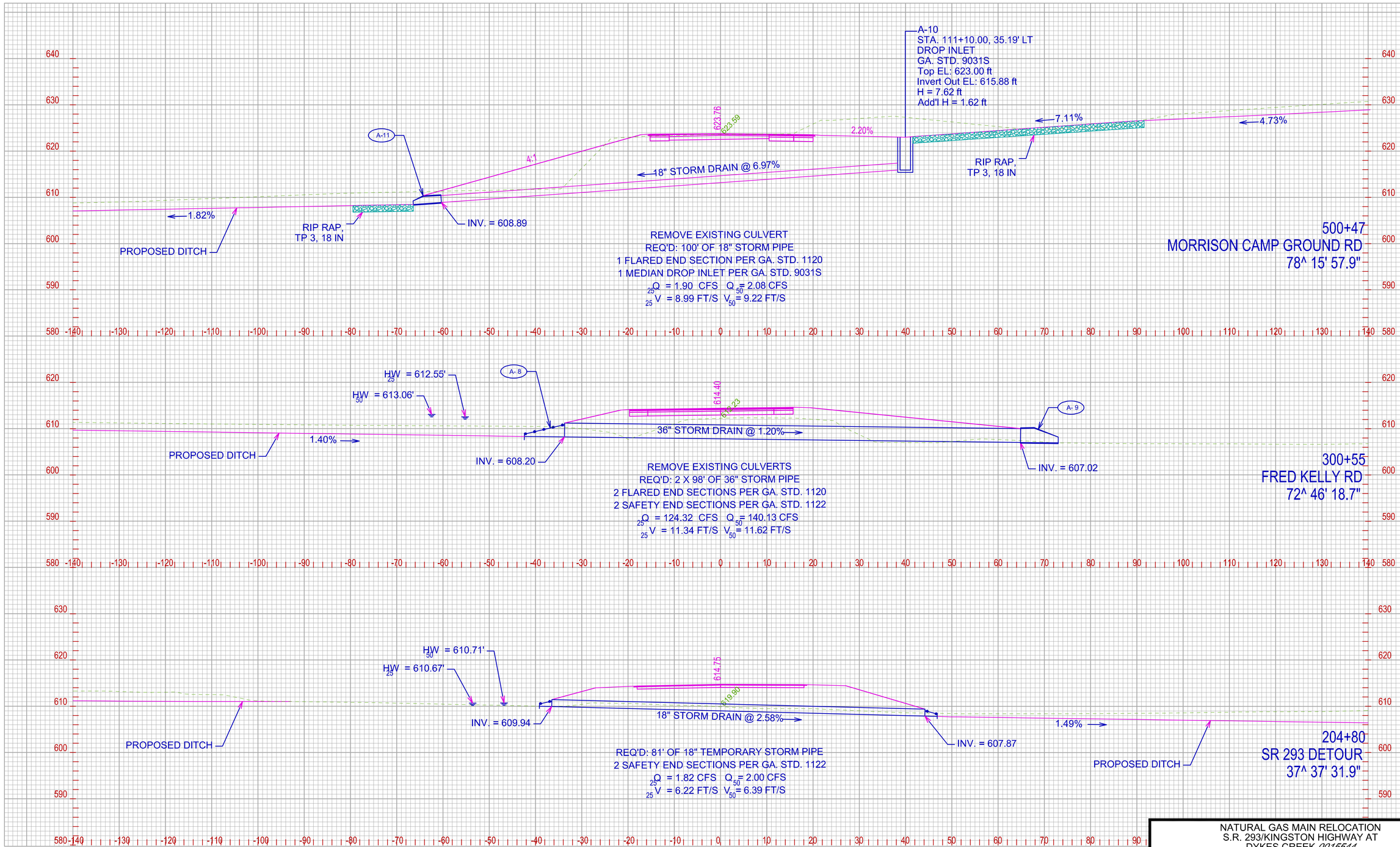
STA. 107+26.47: 592.64-BEGIN VERTICAL TURN
STA. 107+54.69: 592.64-END VERTICAL TURN
STA. 106+01.75: 602.42-END VERTICAL TURN
STA. 108+49.15: 598.24-BEGIN VERTICAL TURN

609.87 607.88 606.45 606.99 608.43 611.50

105+00 106+00 107+00 108+00 109+00 110+00

615 610 605 600 595 590

C:\USERS\BFISER\APPDATA\LOCAL\TEMP\ACPUBLISH_16356\CP-21-001-HTP-MOVE_AUGUST-14_2023-1-49PM



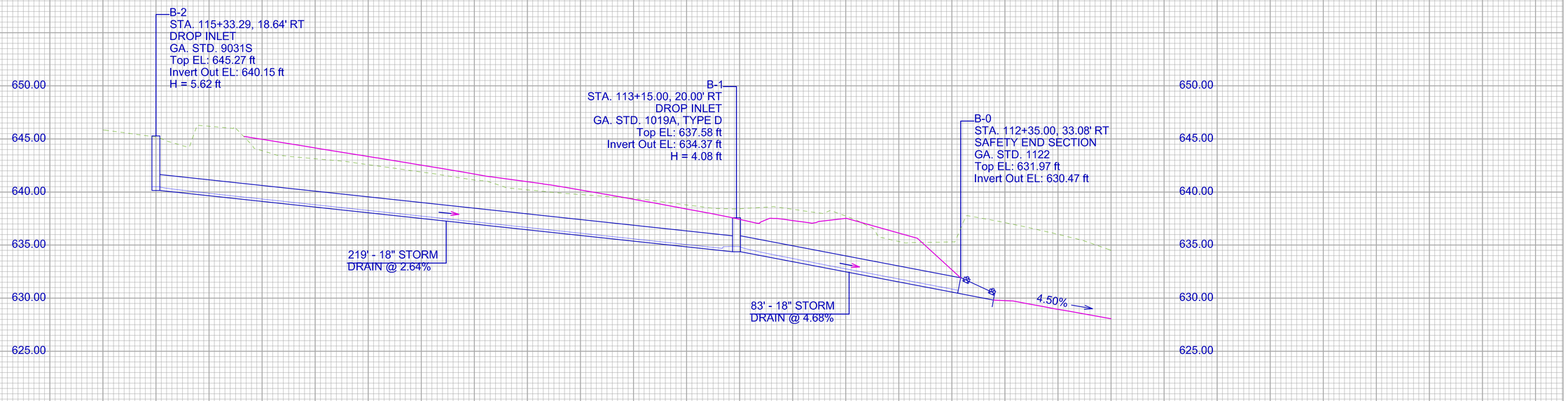
NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DRAINAGE PROFILES
STRUCTURES A

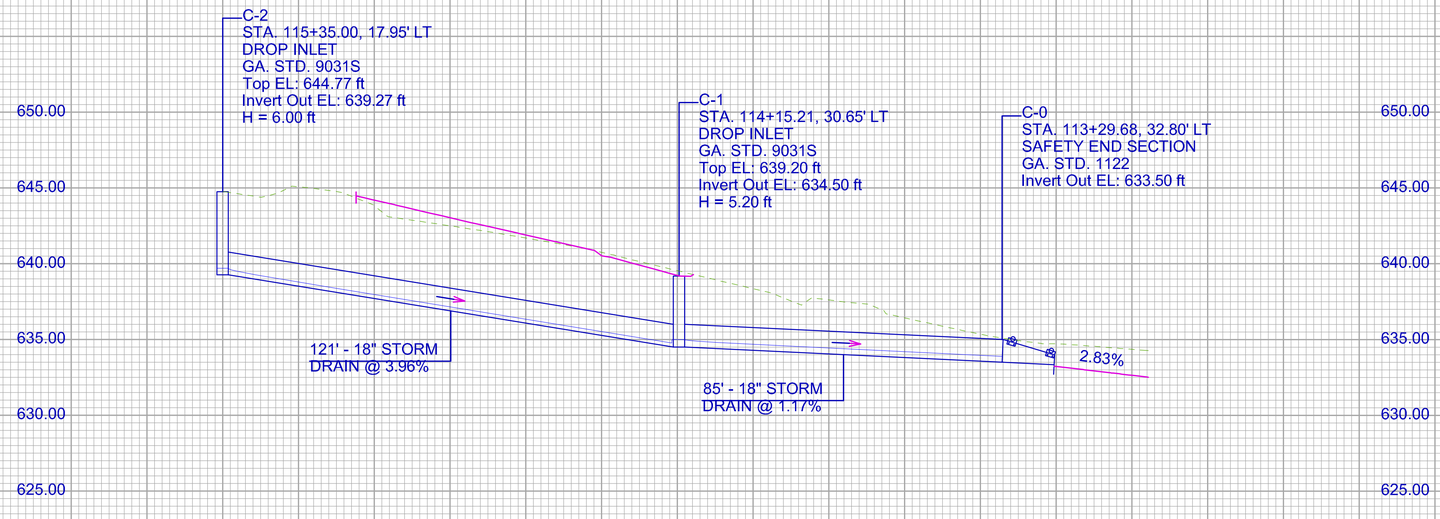
SHEET: DPRF-01

FILE:C:\USERS\RENEWAL\PROJECTS\CH12-0XY\PLANS\CH12-0XY01-DPRF.DWG AUGUST 07, 2023 - 8:19AM

PROFILE: B-2 TO B-0



PROFILE: C-2 TO C-0



NOTES:
1. DRAINAGE STRUCTURE CALCULATIONS ASSUME A BASE SLAB THICKNESS OF 0.67'.

2. STRUCTURE OFFSETS ARE DEFINED AS FOLLOWS: CATCH BASIN: CONST C TO EDGE OF PAVEMENT; MANHOLE/DROP INLET: CONST C TO CENTER OF STRUCTURE

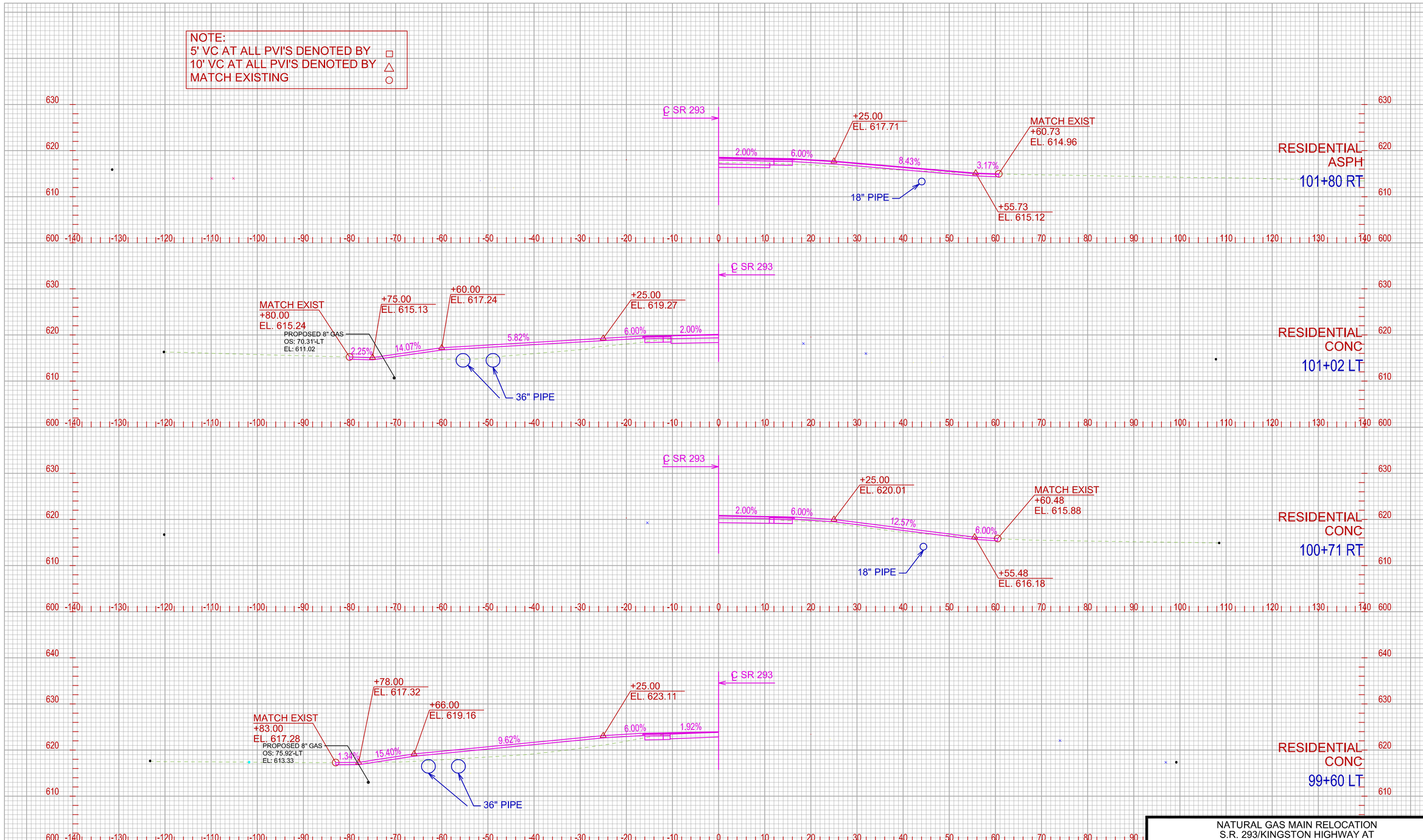
3. ALL STRUCTURES STATIONED OFF OF SR 293 UNLESS NOTED OTHERWISE.

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DRAINAGE PROFILES
STRUCTURES B THRU C

SHEET: DPRF-02

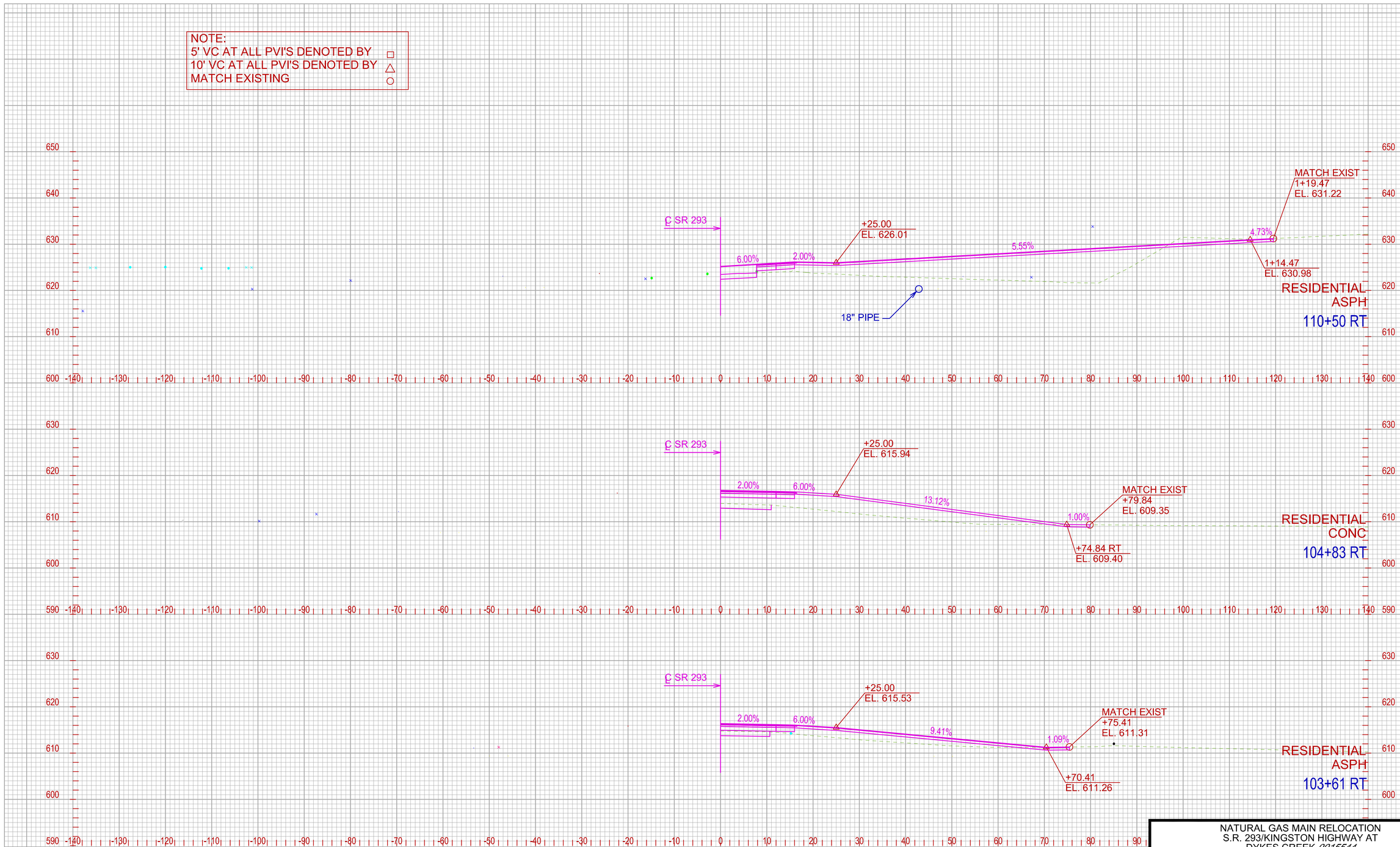
FILE:C:\USERS\KENDRAPOWELL\DESKTOP\PROJECTS\C-21001\PLANS\C-21001-DPRF.DWG PLOTTED: 04, 2021 - 4:22PM



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DRIVEWAY PROFILES
STA. 99+60 TO STA. 101+80

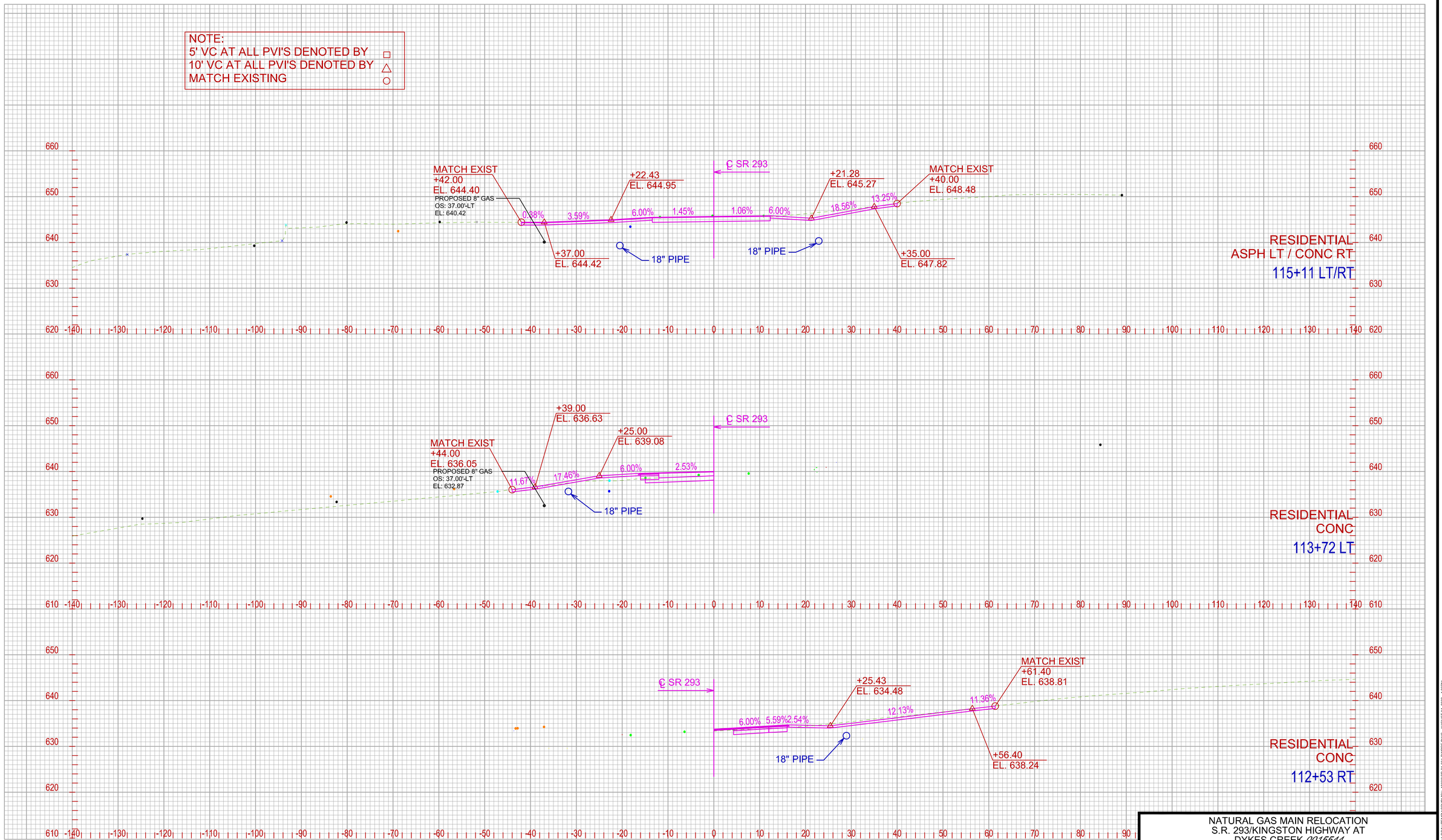
SHEET: DWPRF-01



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DRIVEWAY PROFILES
STA. 103+61 TO STA. 110+50

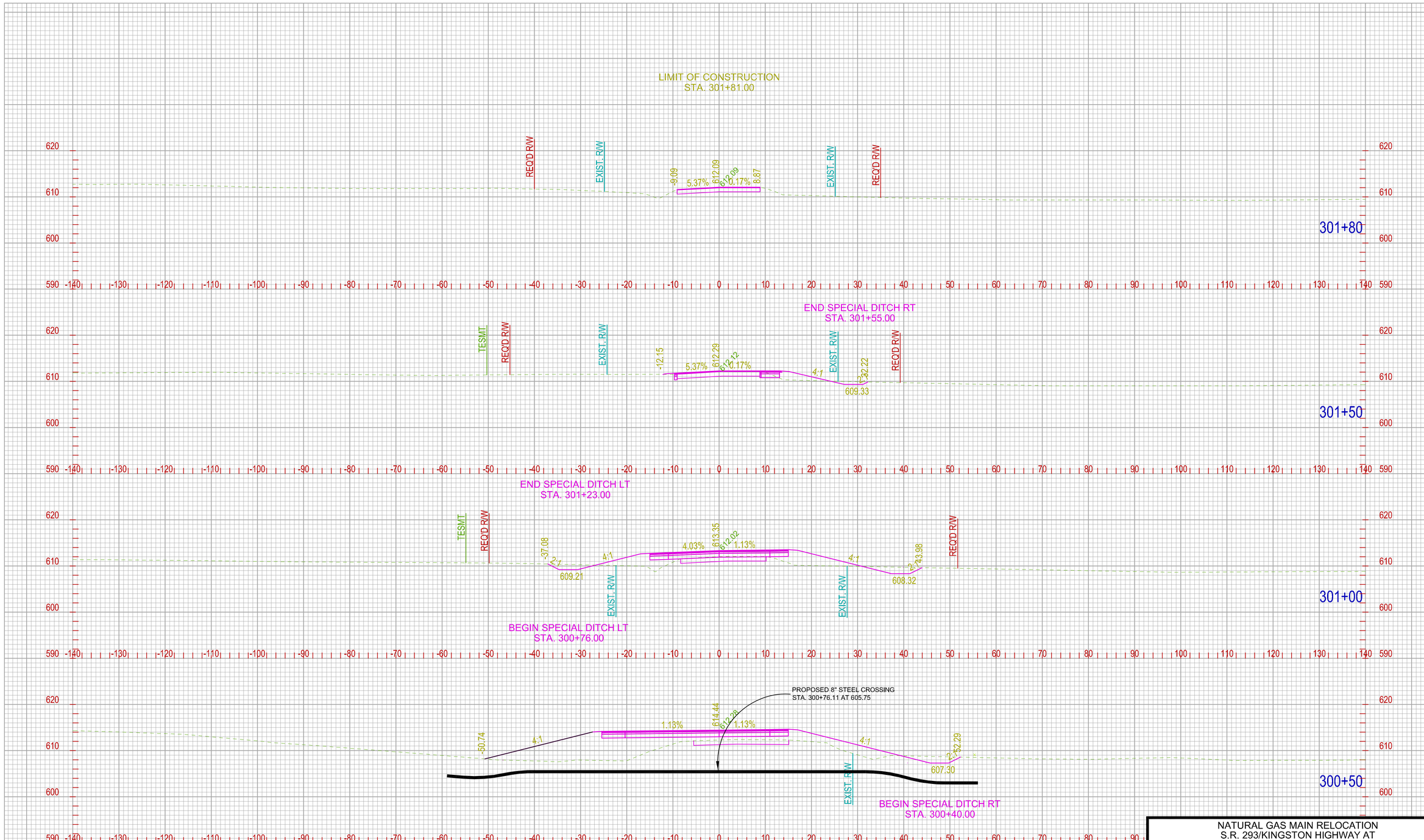
SHEET: DWPRF-02



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

DRIVEWAY PROFILES
STA. 112+53 TO STA. 115+11

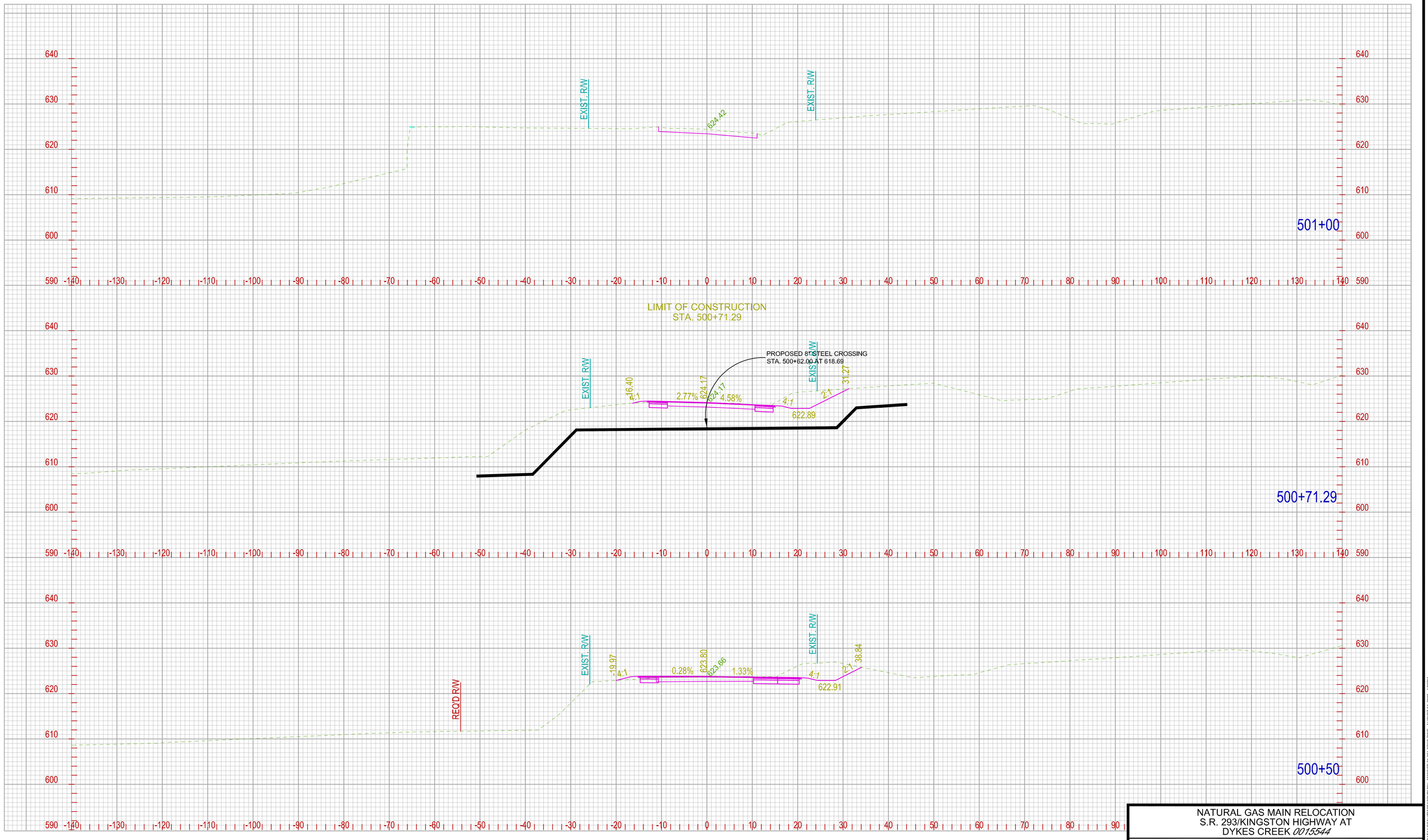
SHEET: DWPRF-03



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

FRED KELLY ROAD X-SECTIONS
STA. 300+50 TO STA. 301+80

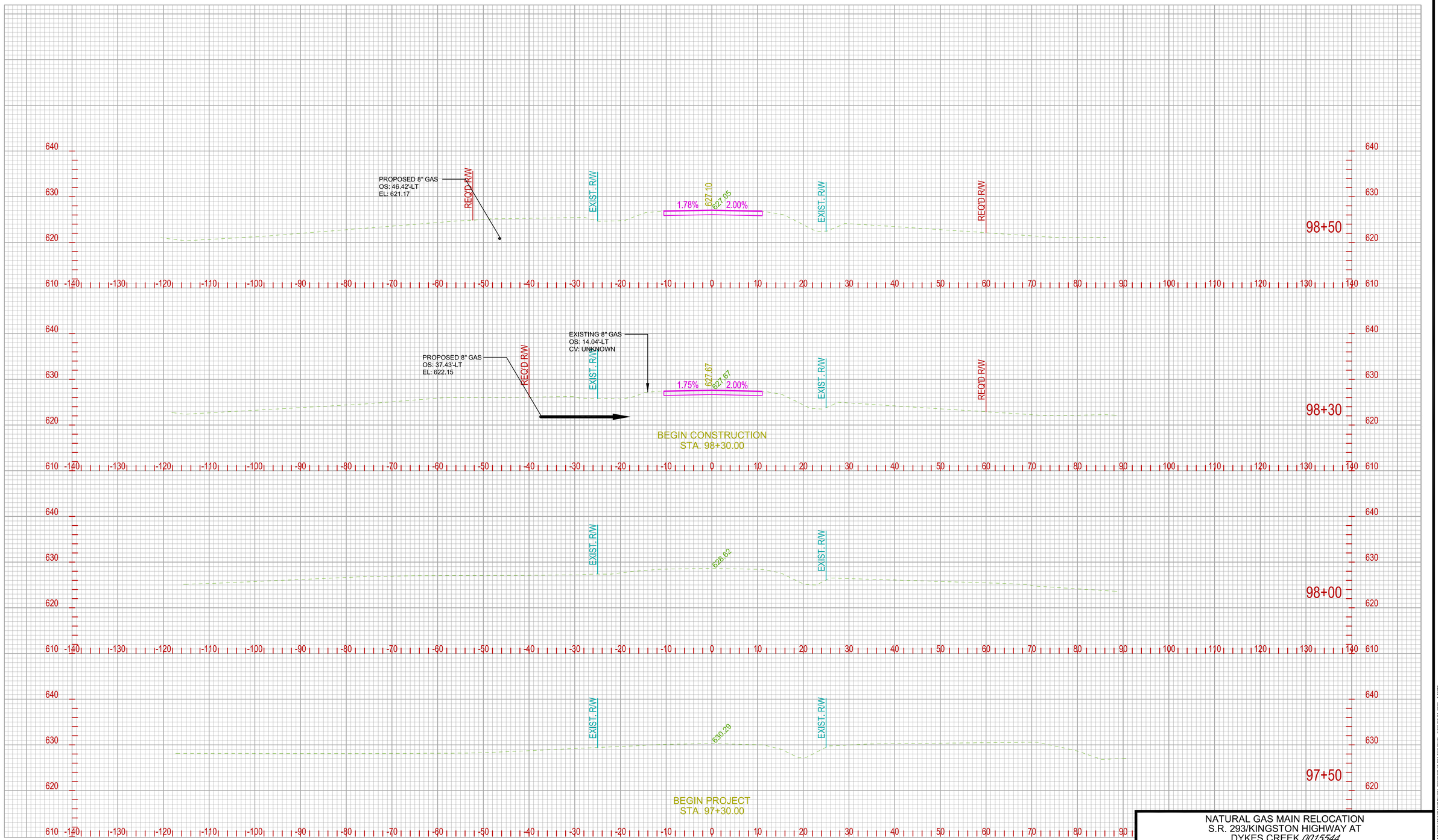
SHEET: SRXS-01



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MORRISON CAMP GROUND ROAD X-SECTIONS
STA. 500+50 TO STA. 501+00

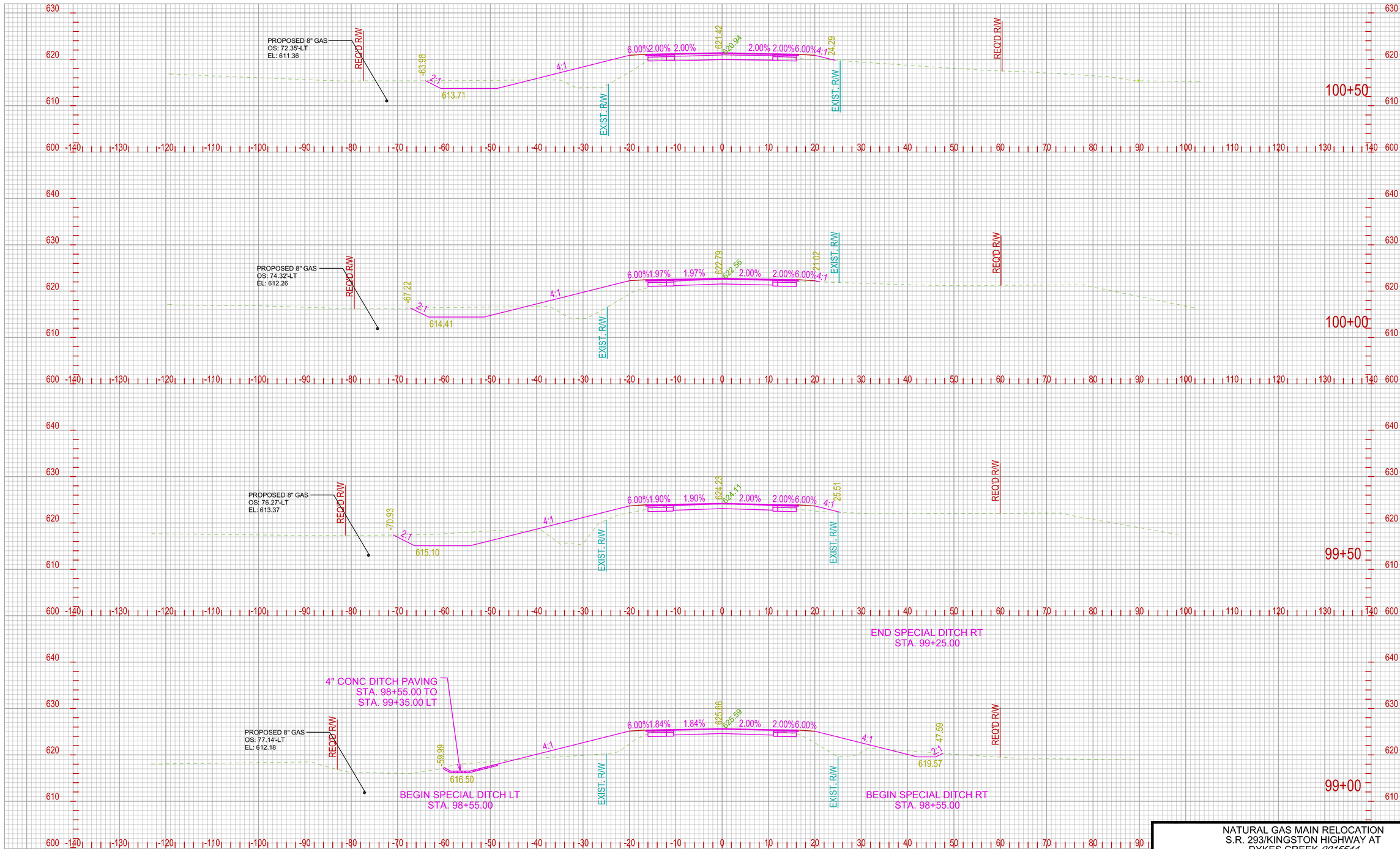
SHEET: SRXS-02



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 97+50 TO STA. 98+50

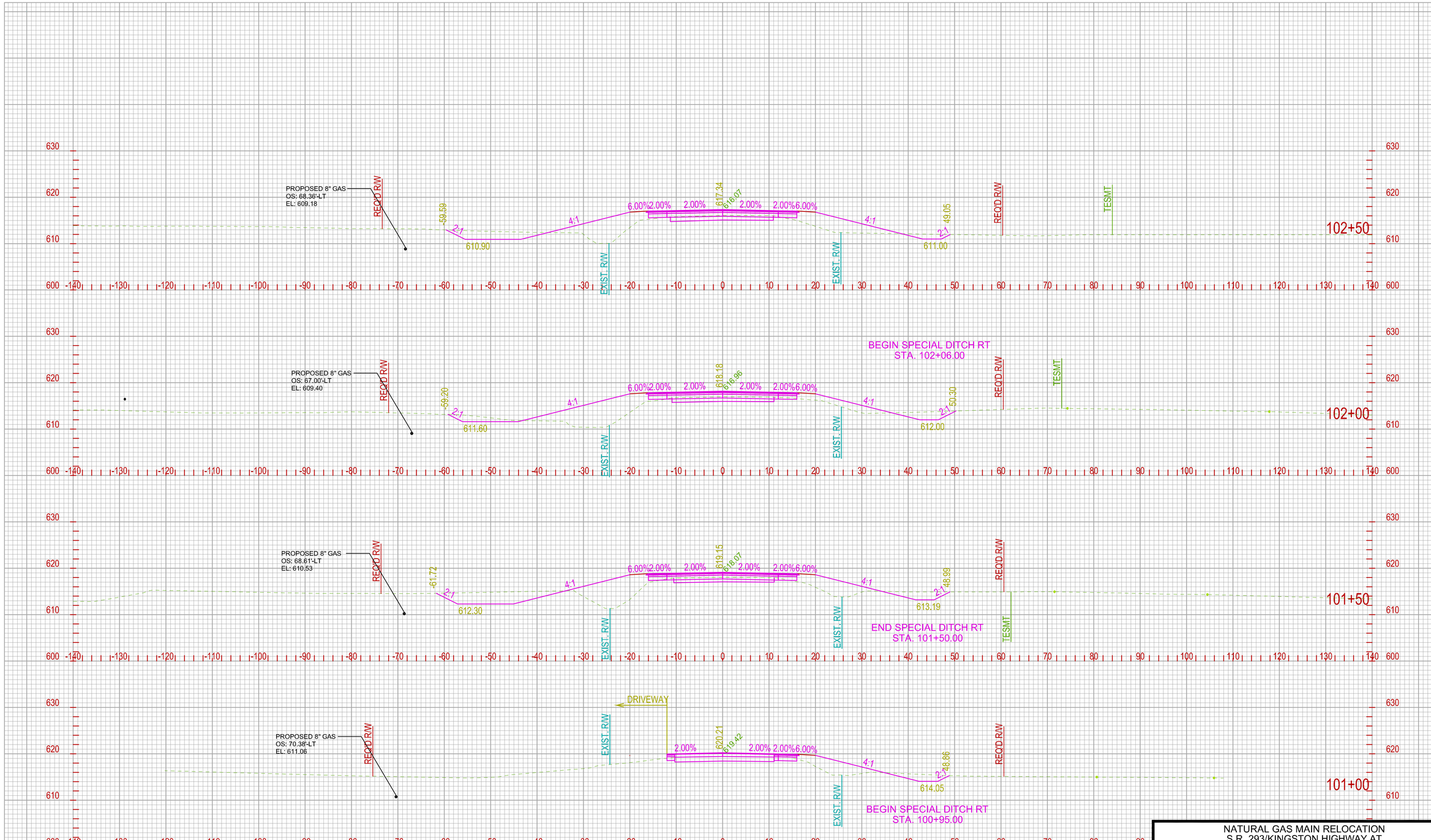
SHEET: EXS-01



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 99+00 TO STA. 100+50

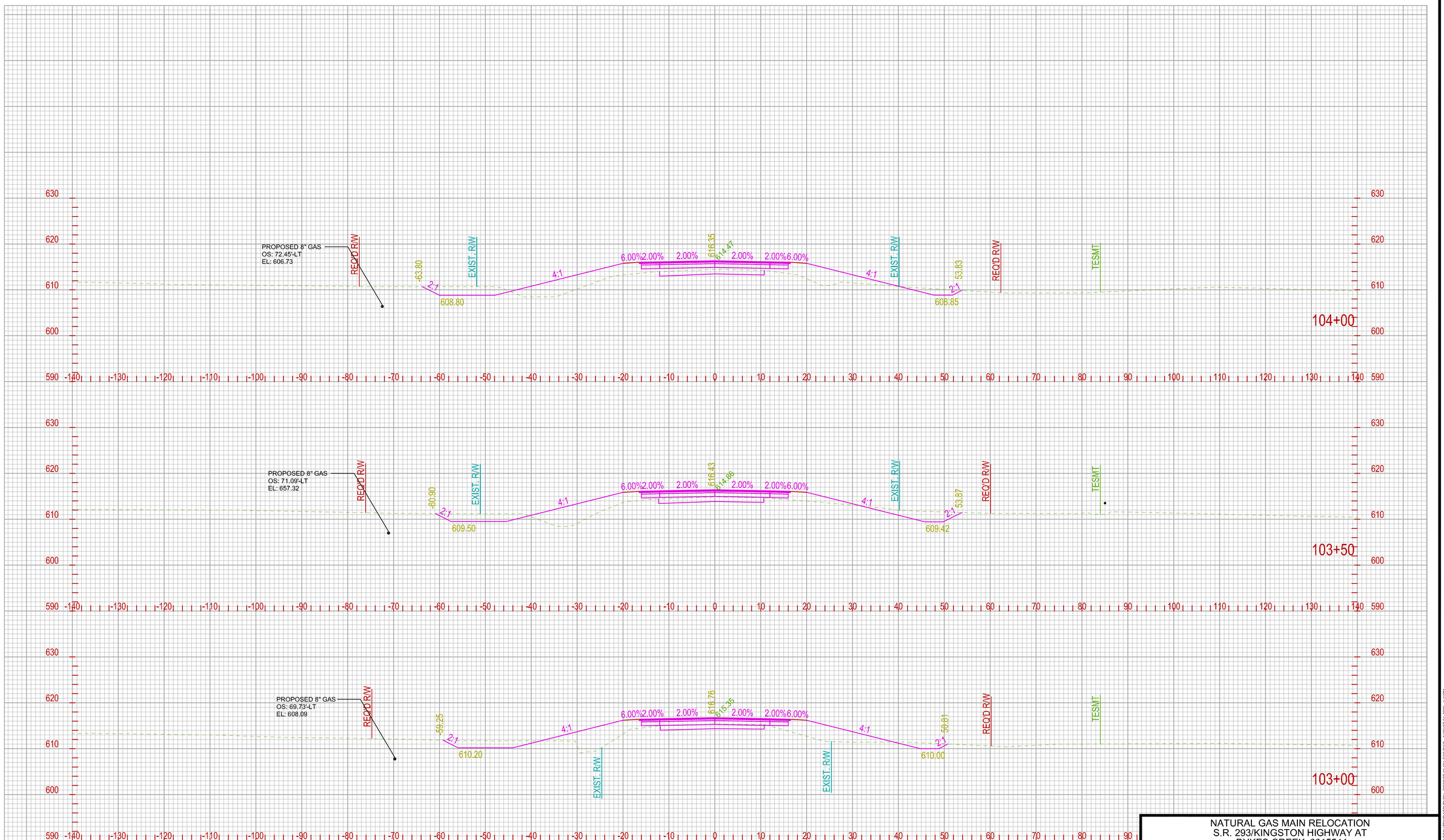
SHEET: EXS-02



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 101+00 TO STA. 102+50

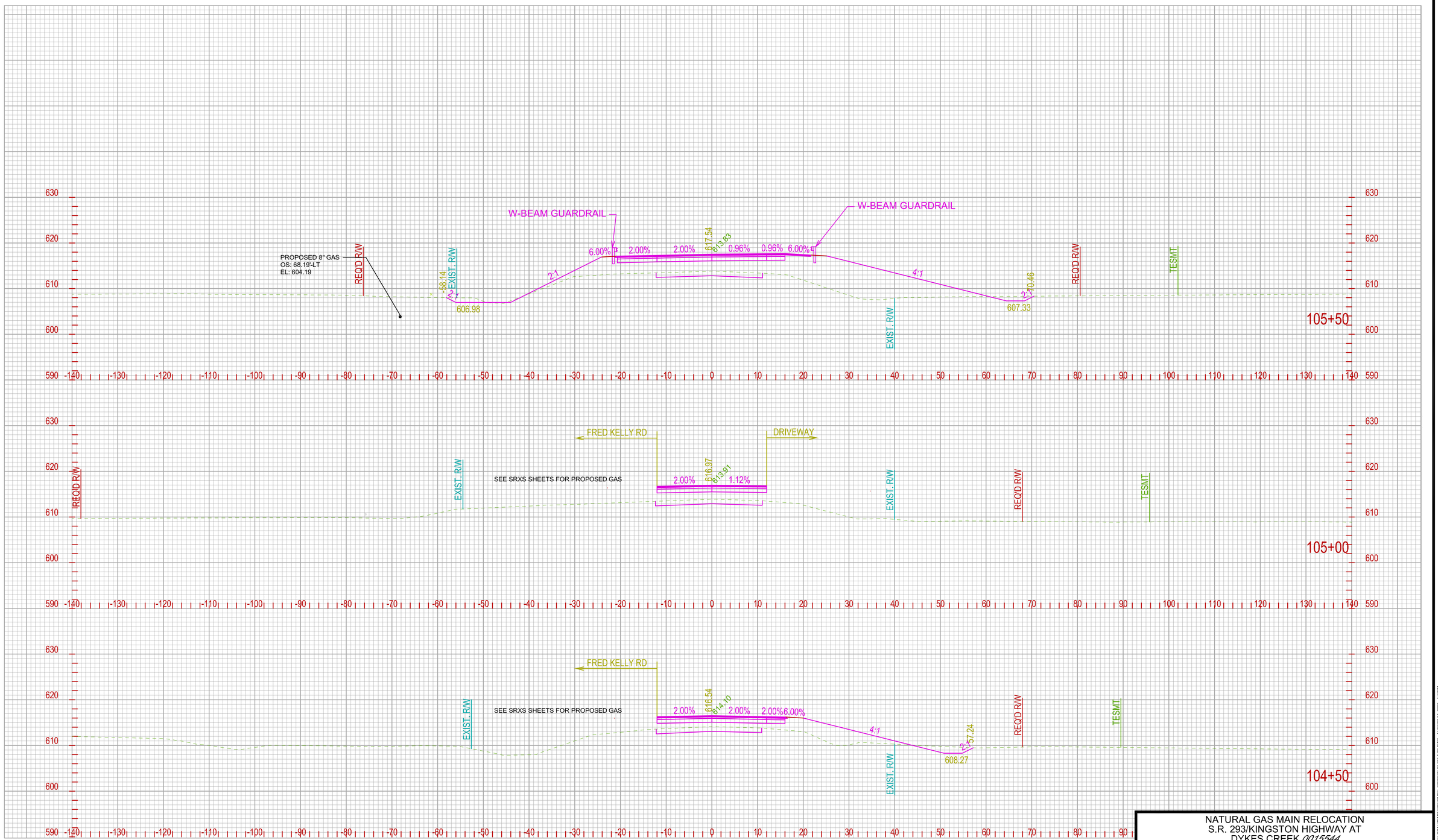
SHEET: EXS-03



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 103+00 TO STA. 104+00

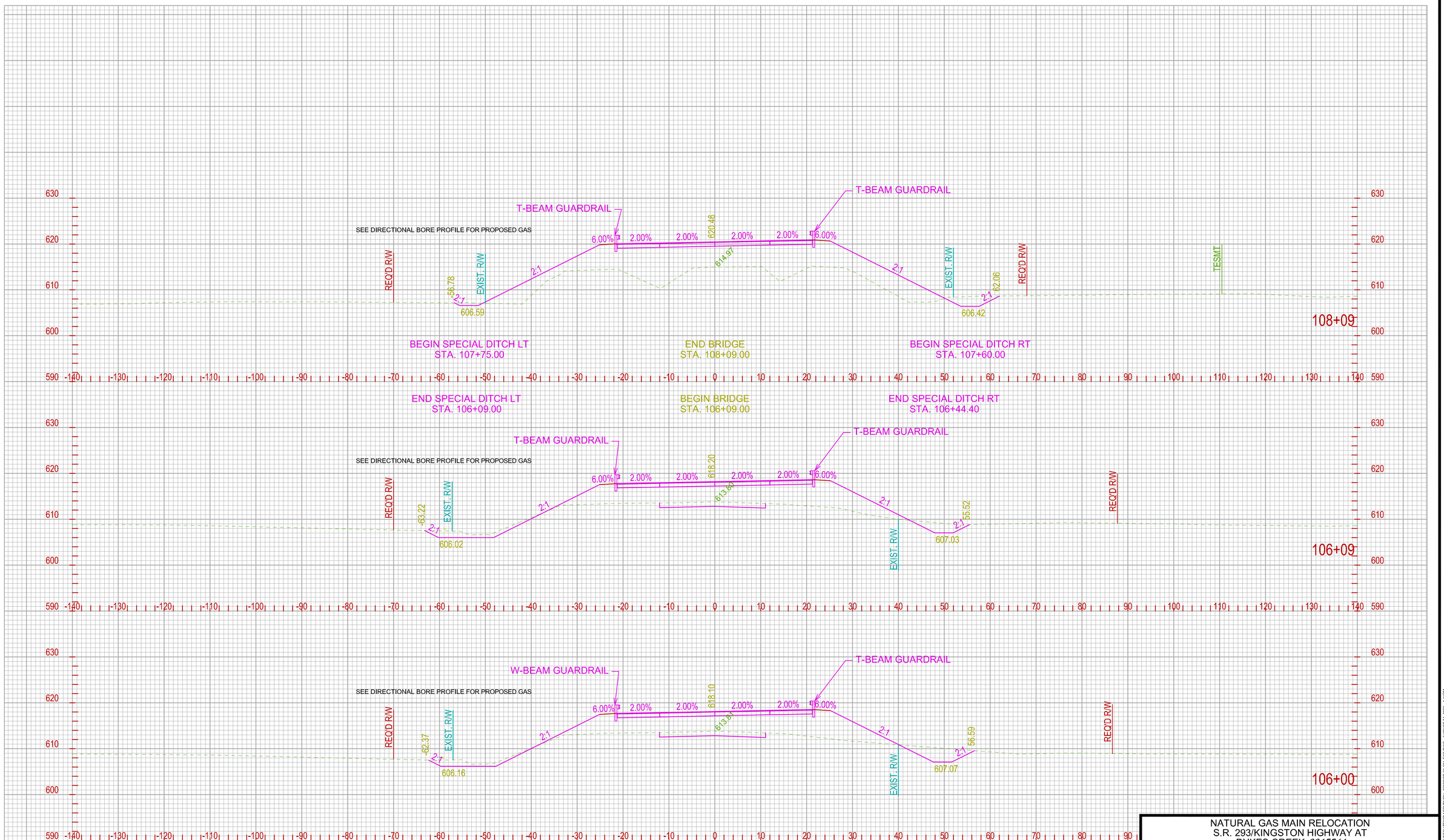
SHEET: EXS-04



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 104+50 TO STA. 105+50

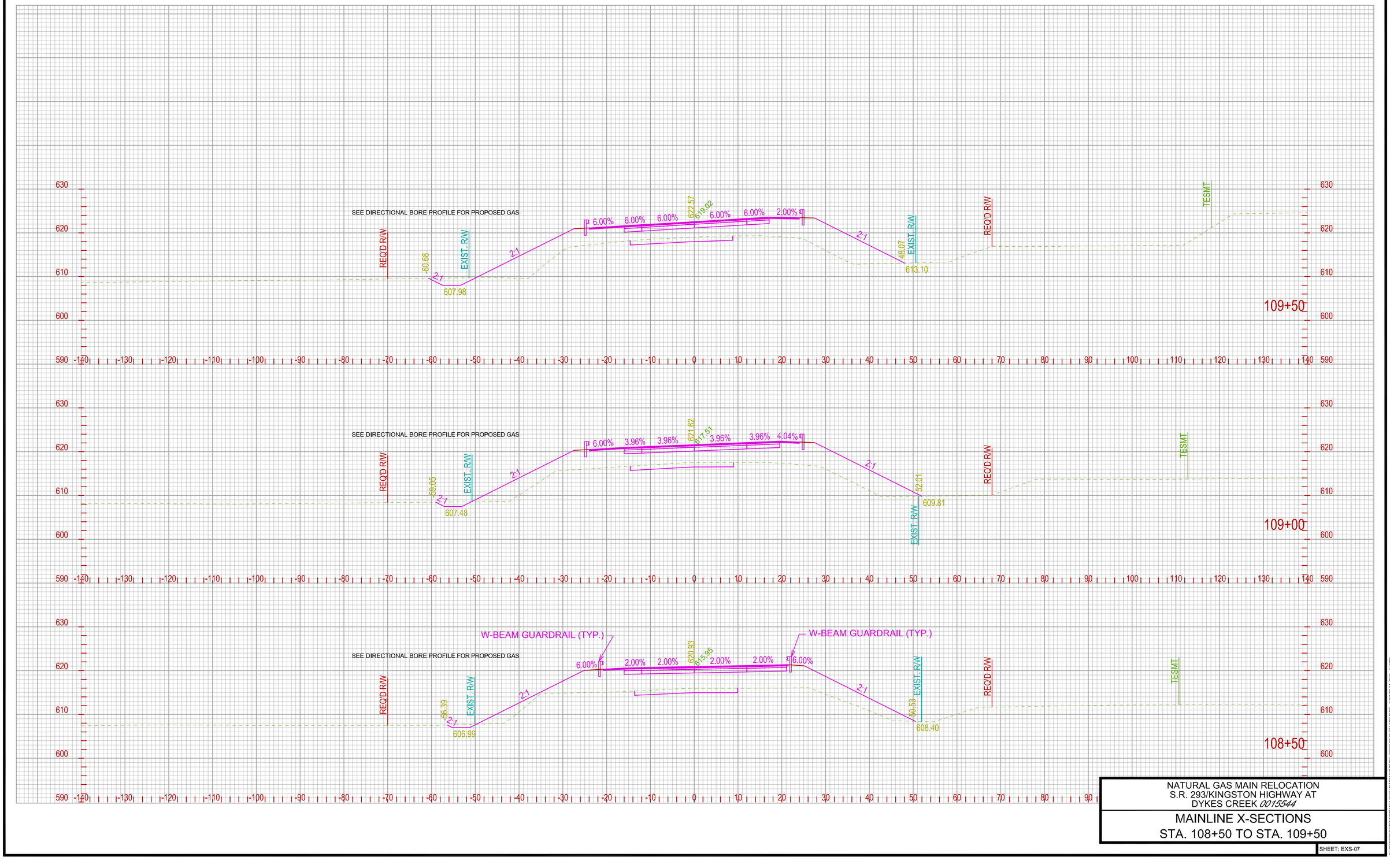
SHEET: EXS-05



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 106+00 TO STA. 108+09

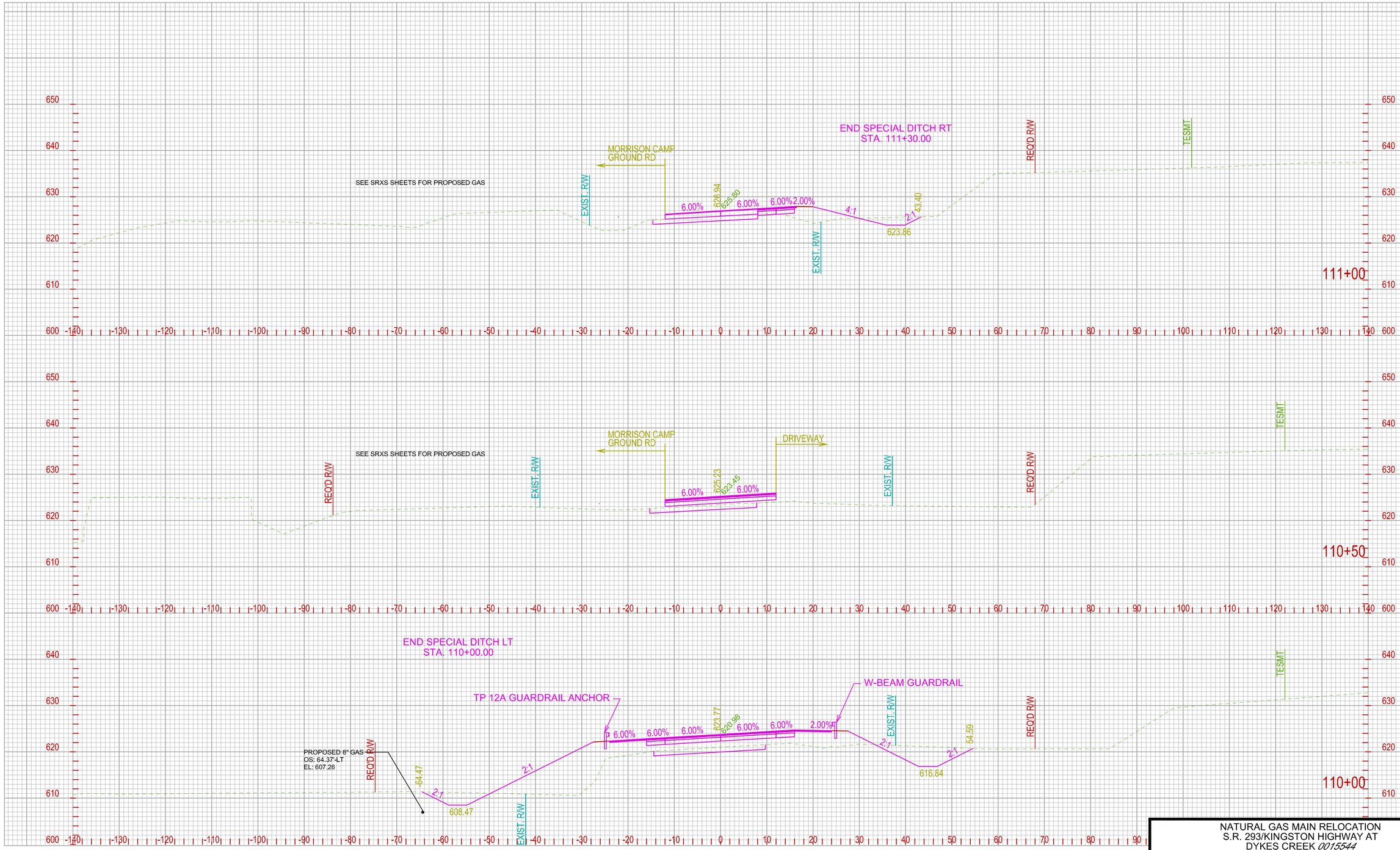
SHEET: EXS-06



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 108+50 TO STA. 109+50

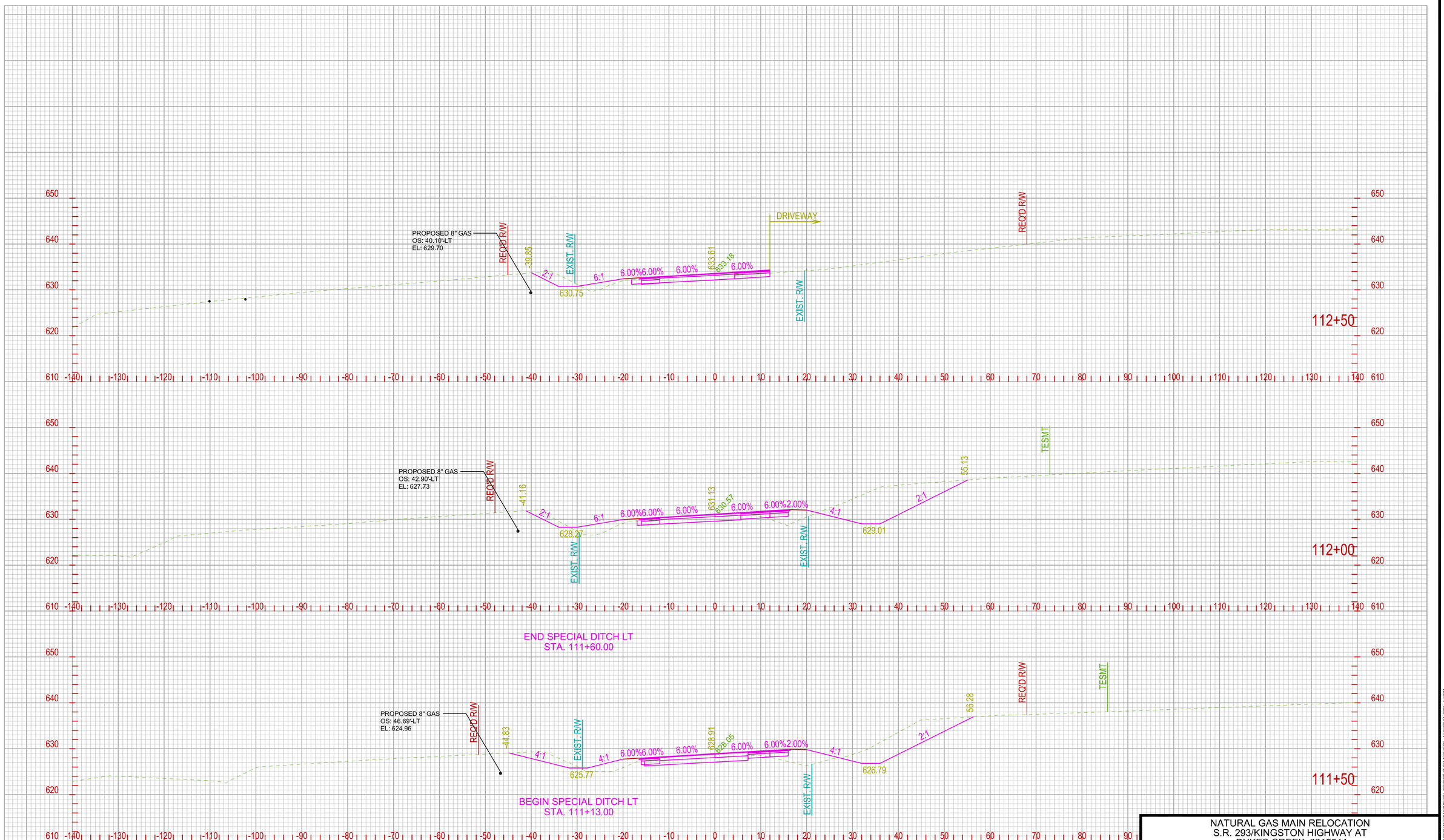
SHEET: EXS-07



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 110+00 TO STA. 111+00

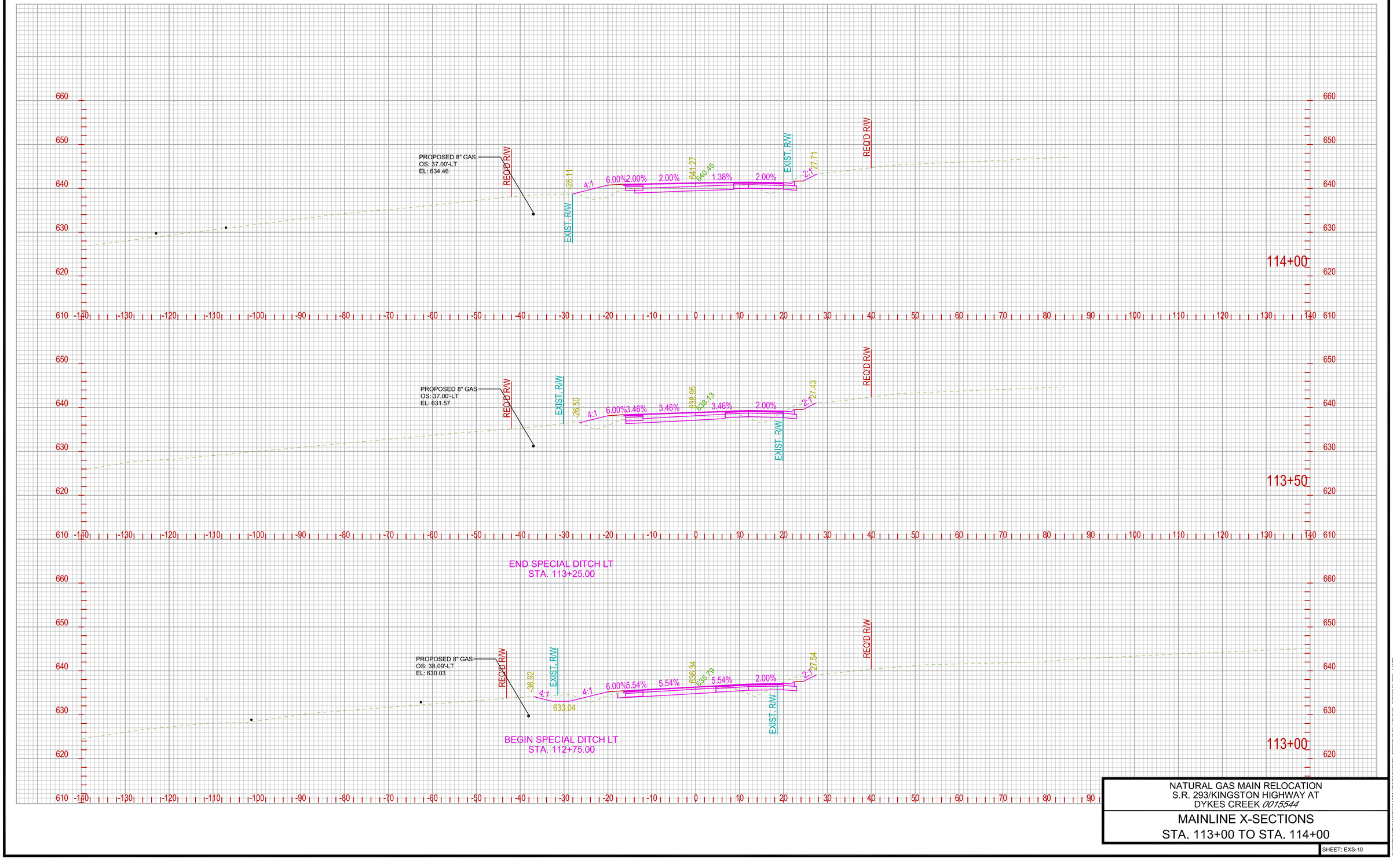
SHEET: EXS-08



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 111+50 TO STA. 112+50

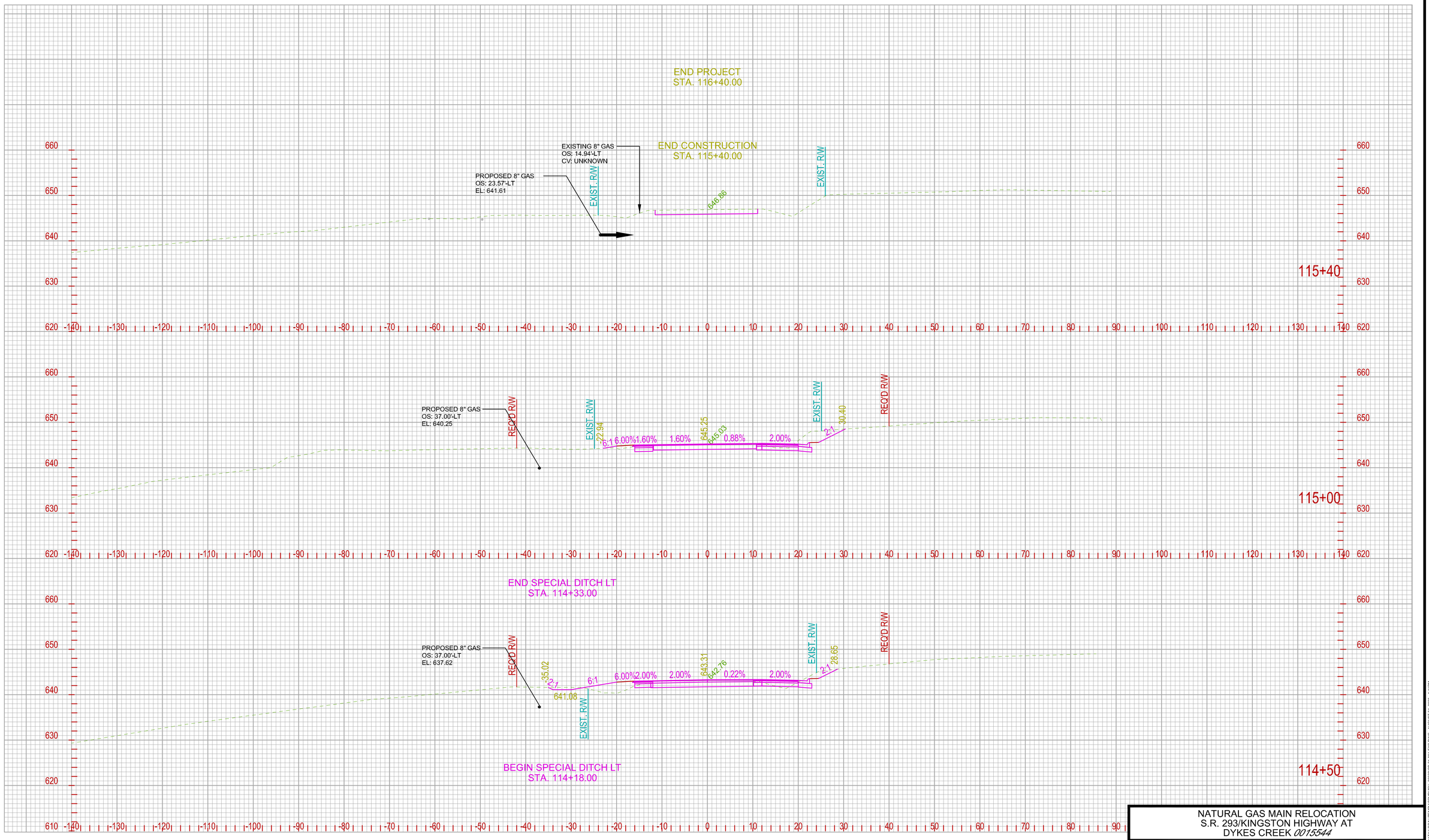
SHEET: EXS-09



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 113+00 TO STA. 114+00

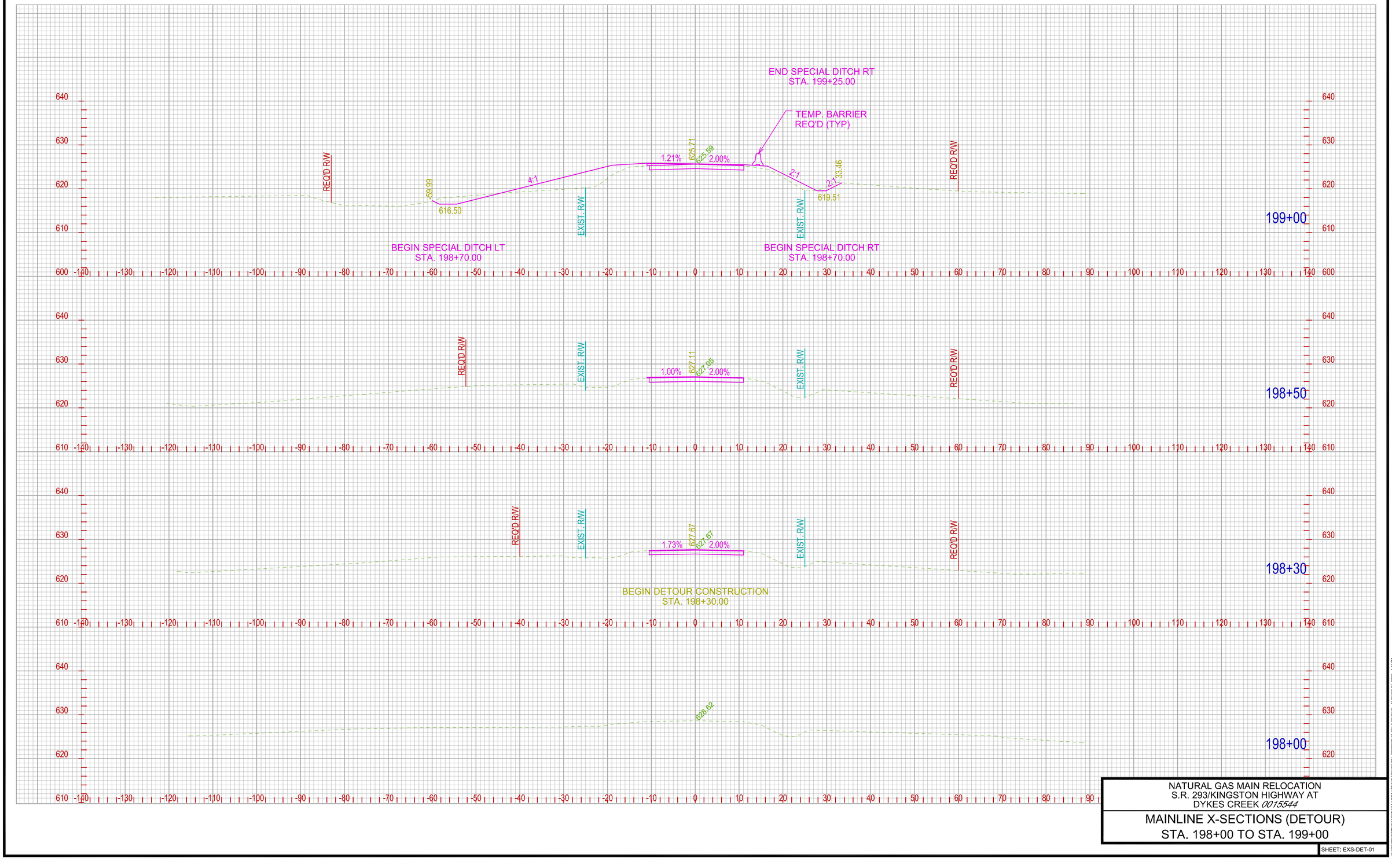
SHEET: EXS-10



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS
STA. 114+50 TO STA. 115+40

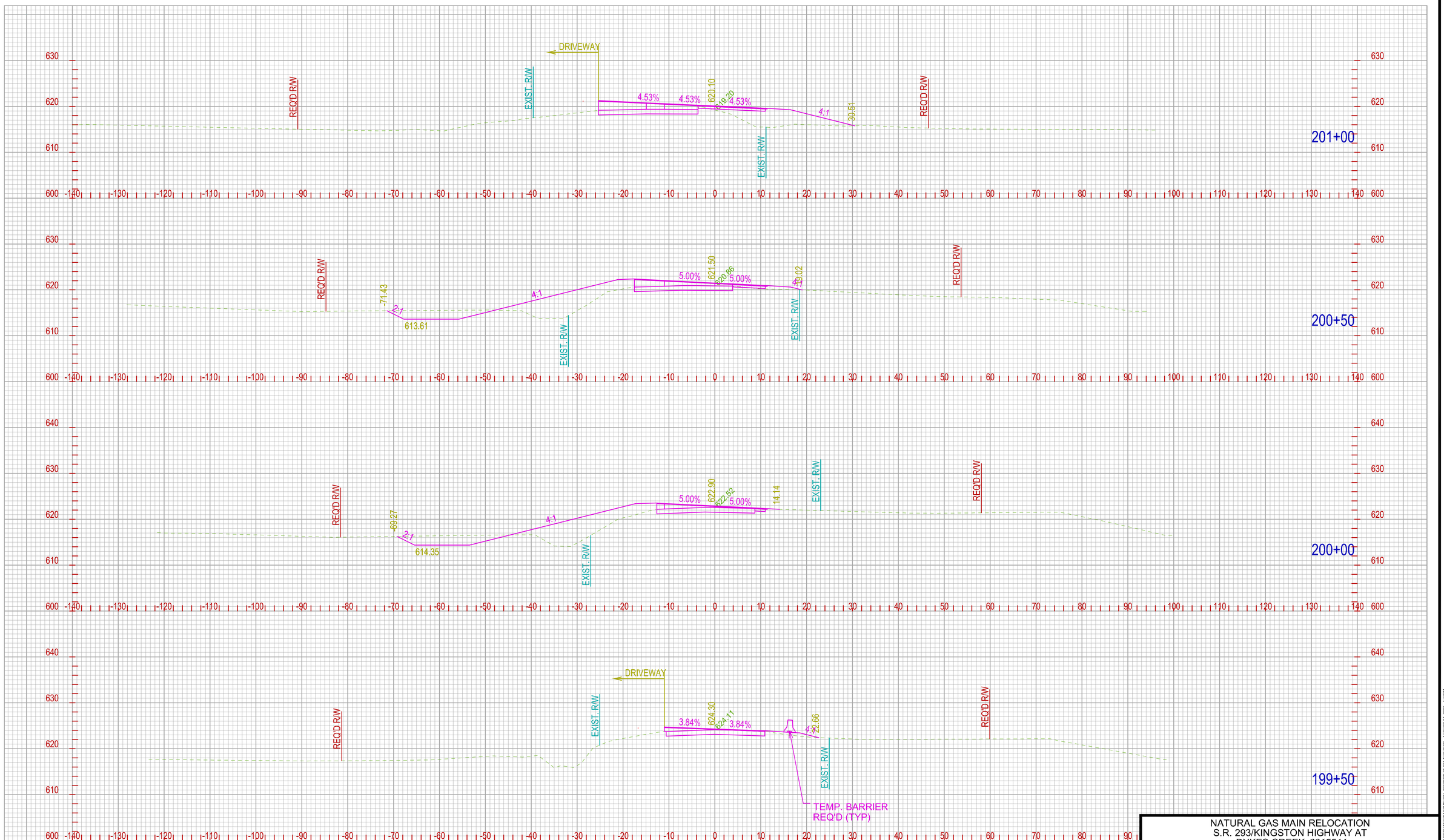
SHEET: EXS-11



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 198+00 TO STA. 199+00

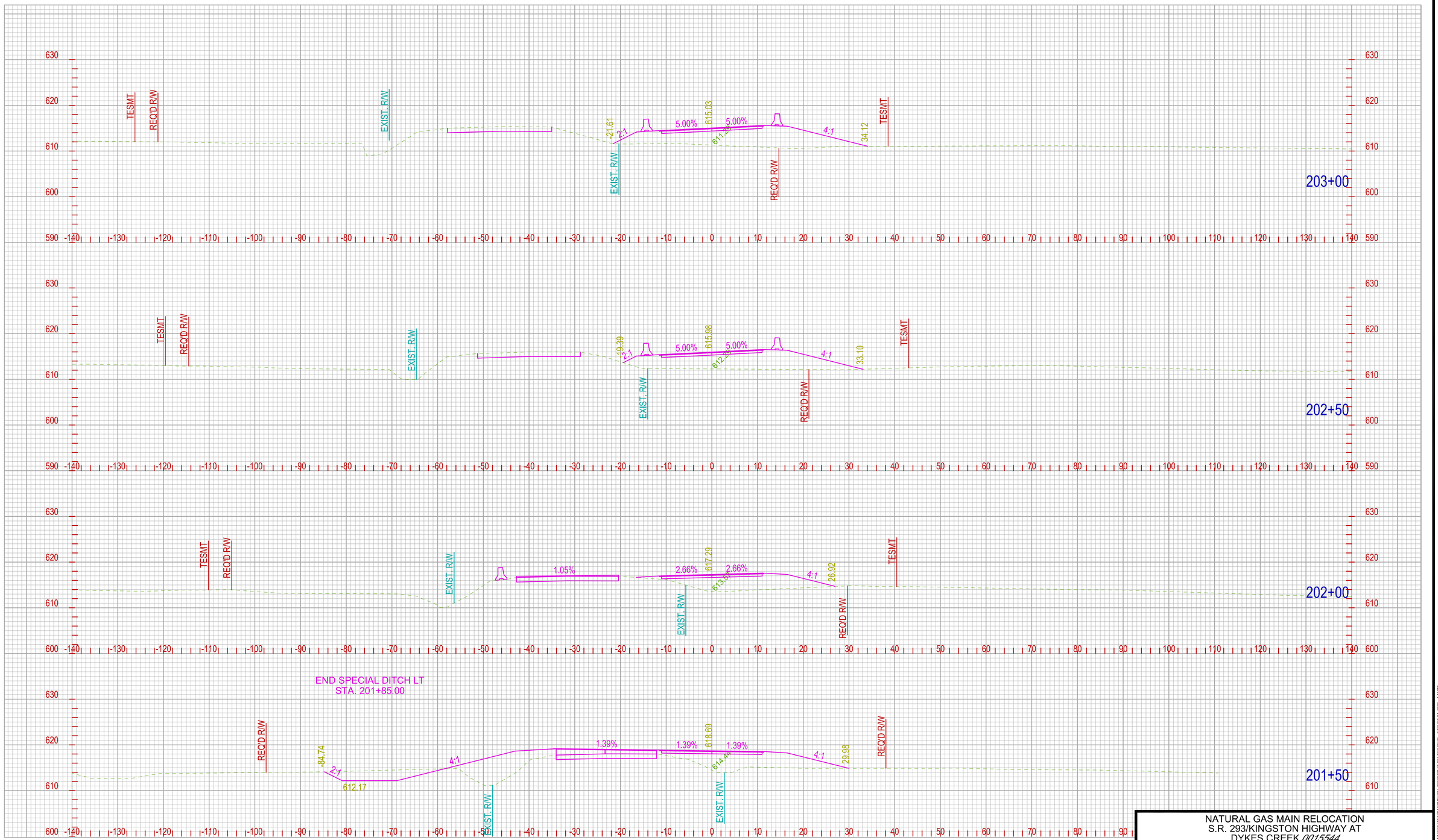
SHEET: EXS-DET-01



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 199+50 TO STA. 201+00

SHEET: EXS-DET-02



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

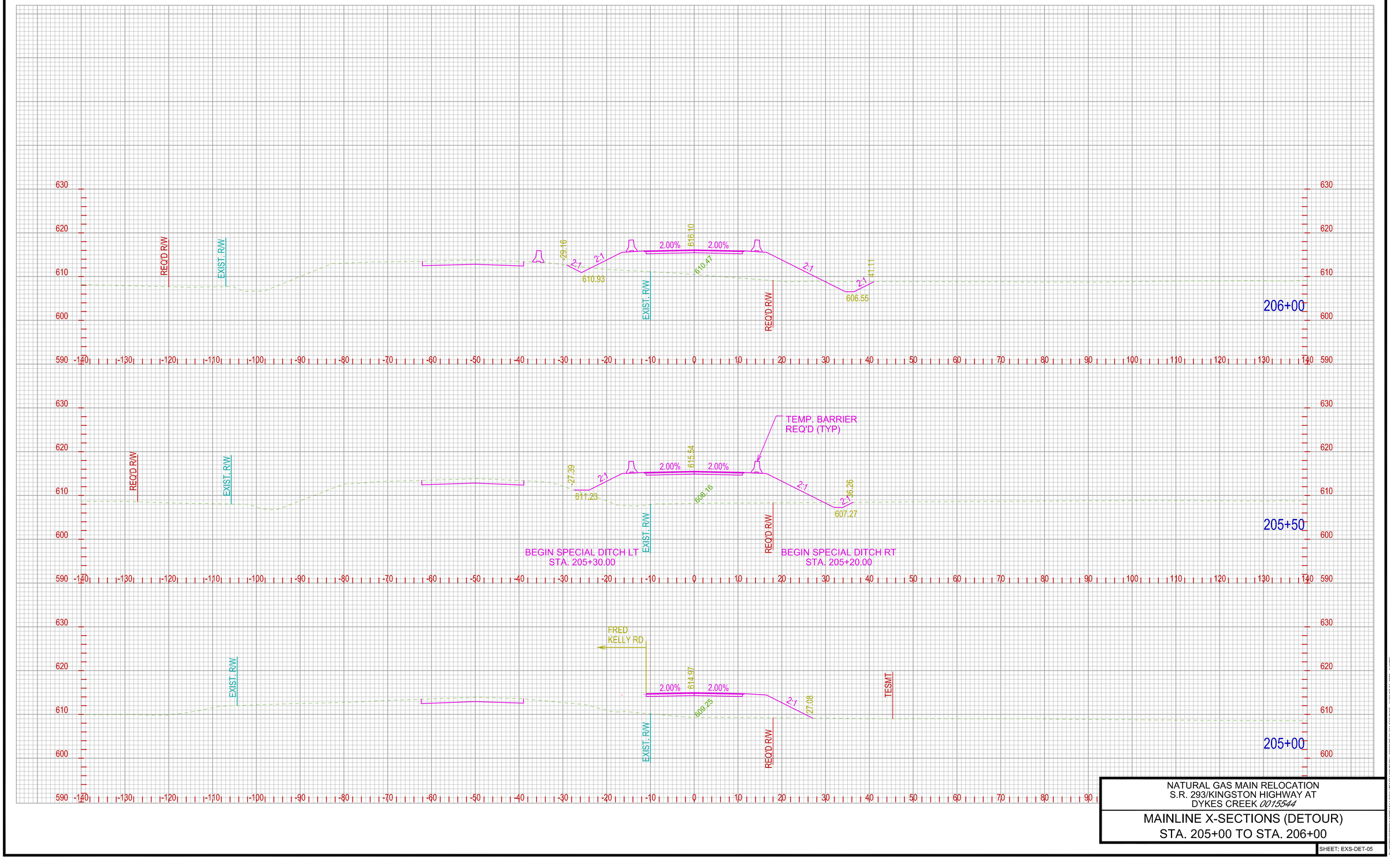
MAINLINE X-SECTIONS (DETOUR)
STA. 201+50 TO STA. 203+00

SHEET: EXS-DET-03

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 203+50 TO STA. 204+50

SHEET: EXS-DET-04



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

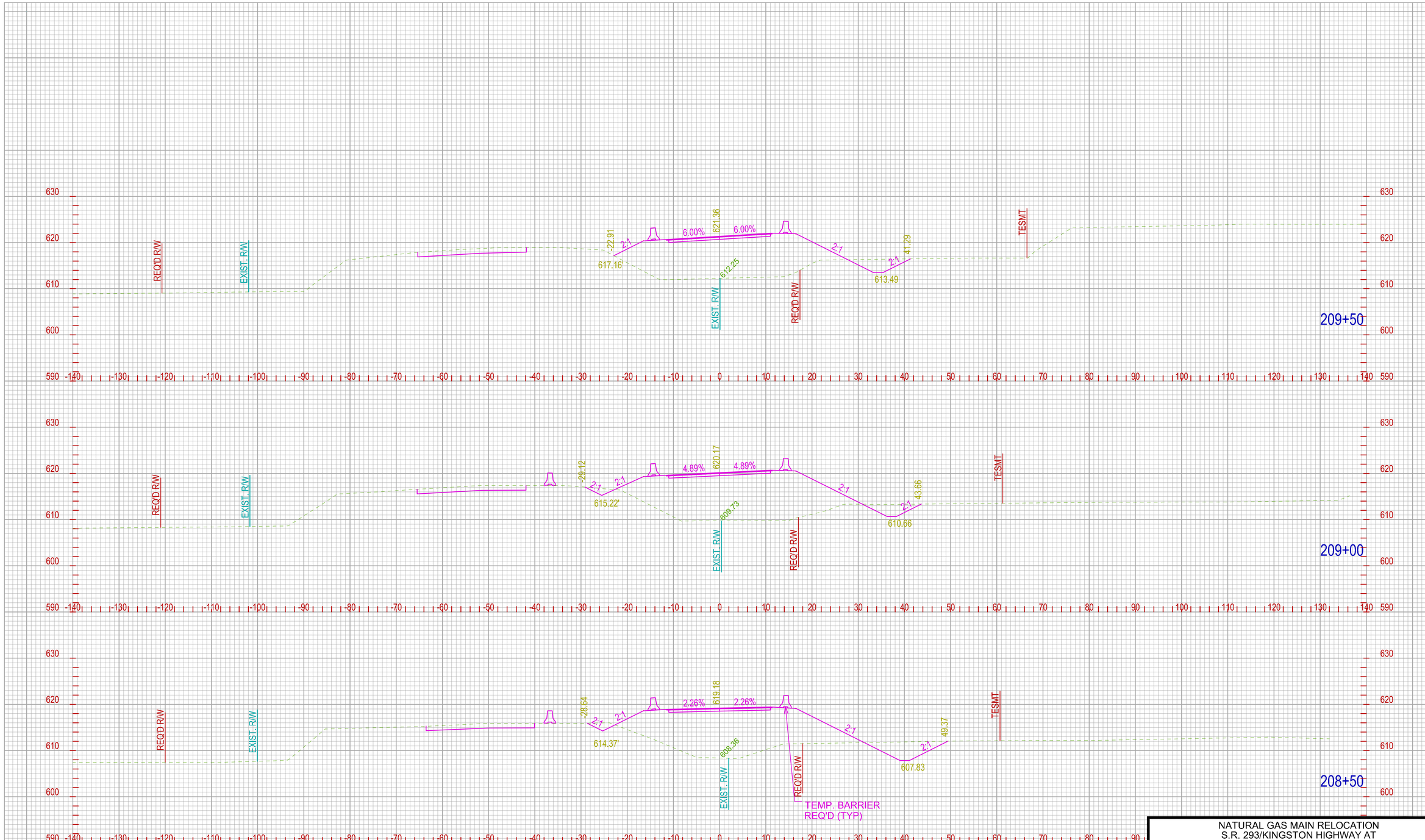
MAINLINE X-SECTIONS (DETOUR)
STA. 205+00 TO STA. 206+00

SHEET: EXS-DET-05

NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 206+50 TO STA. 208+00

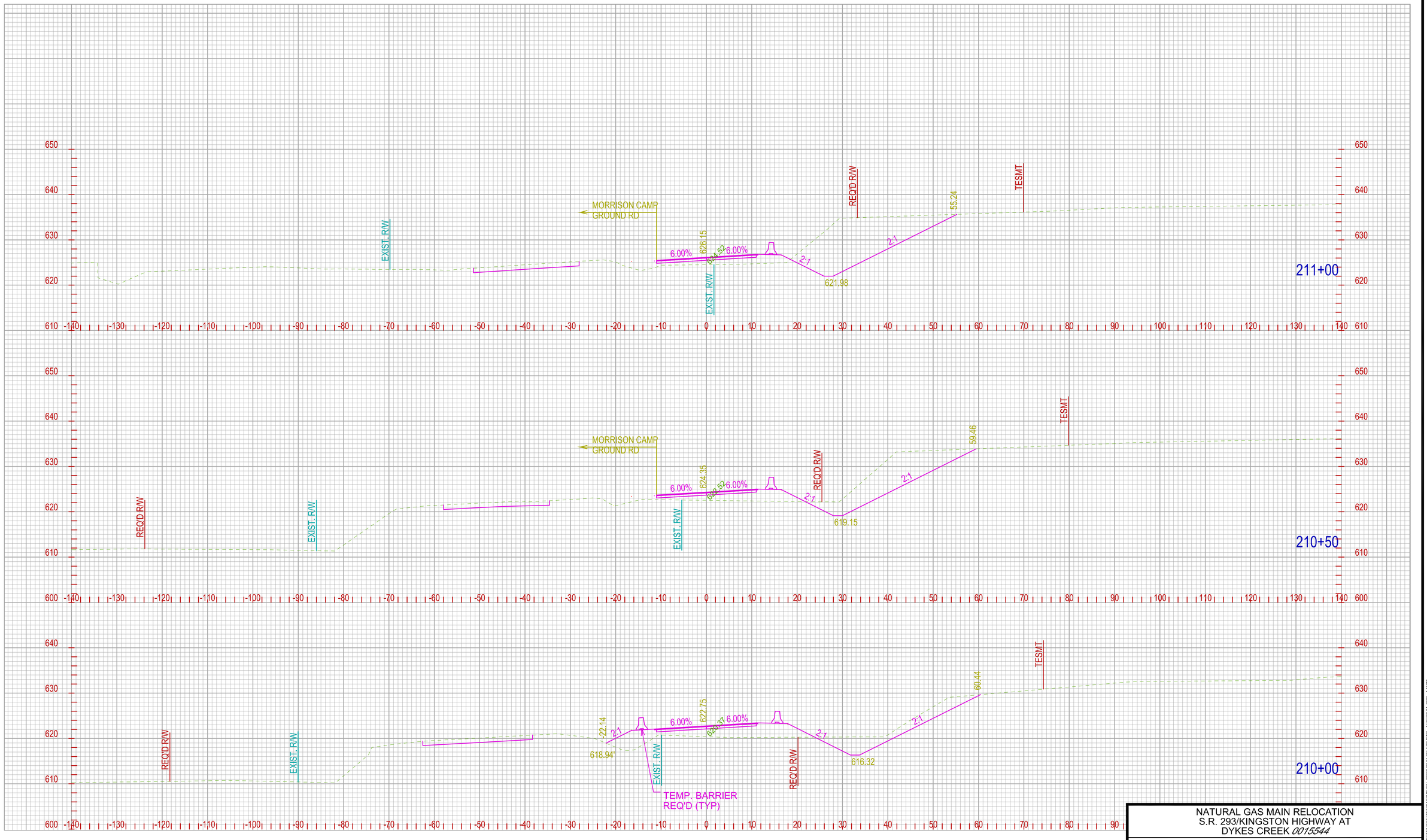
SHEET: EXS-DET-06



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 208+50 TO STA. 209+50

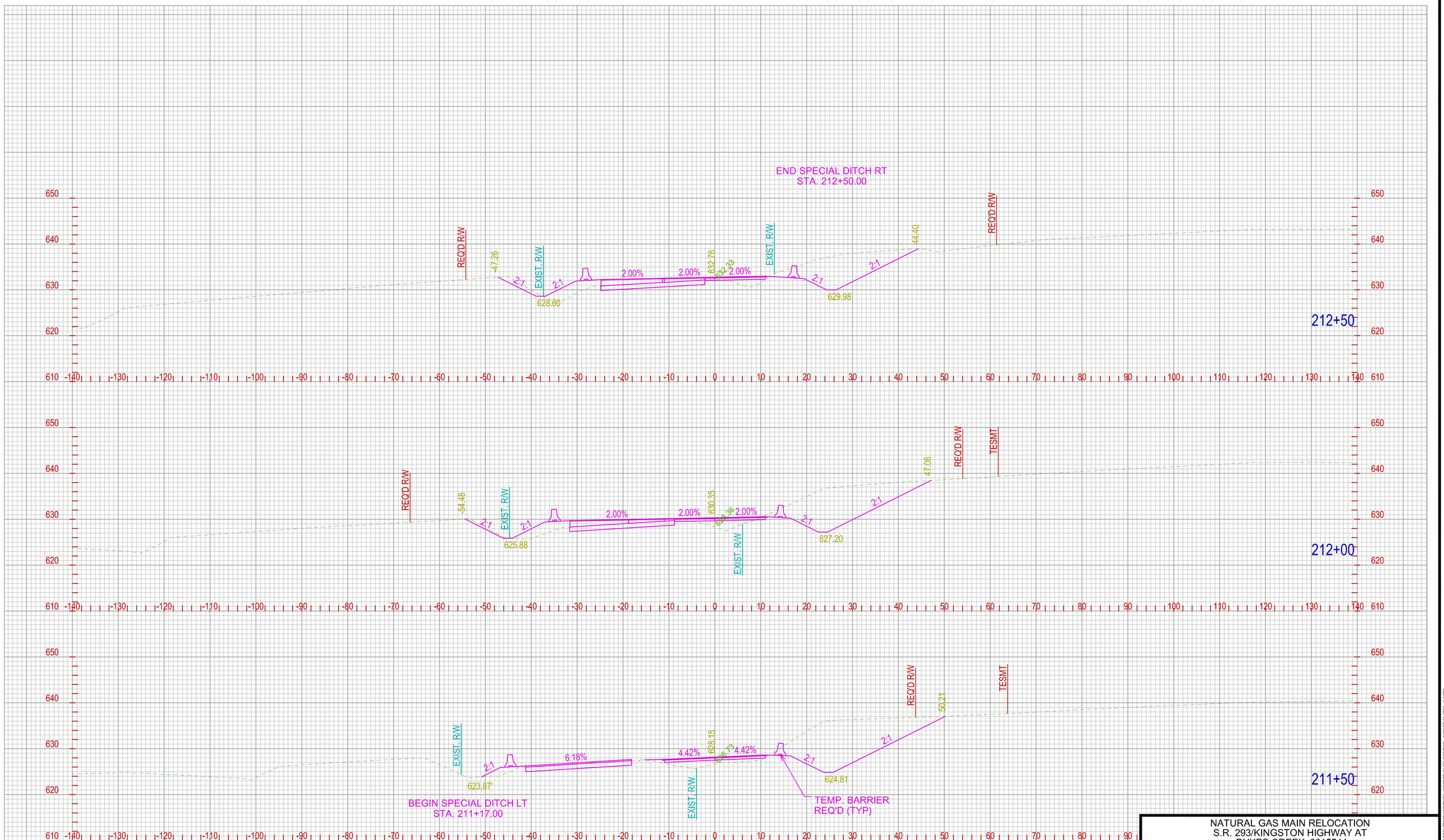
SHEET: EXS-DET-07



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 210+00 TO STA. 211+00

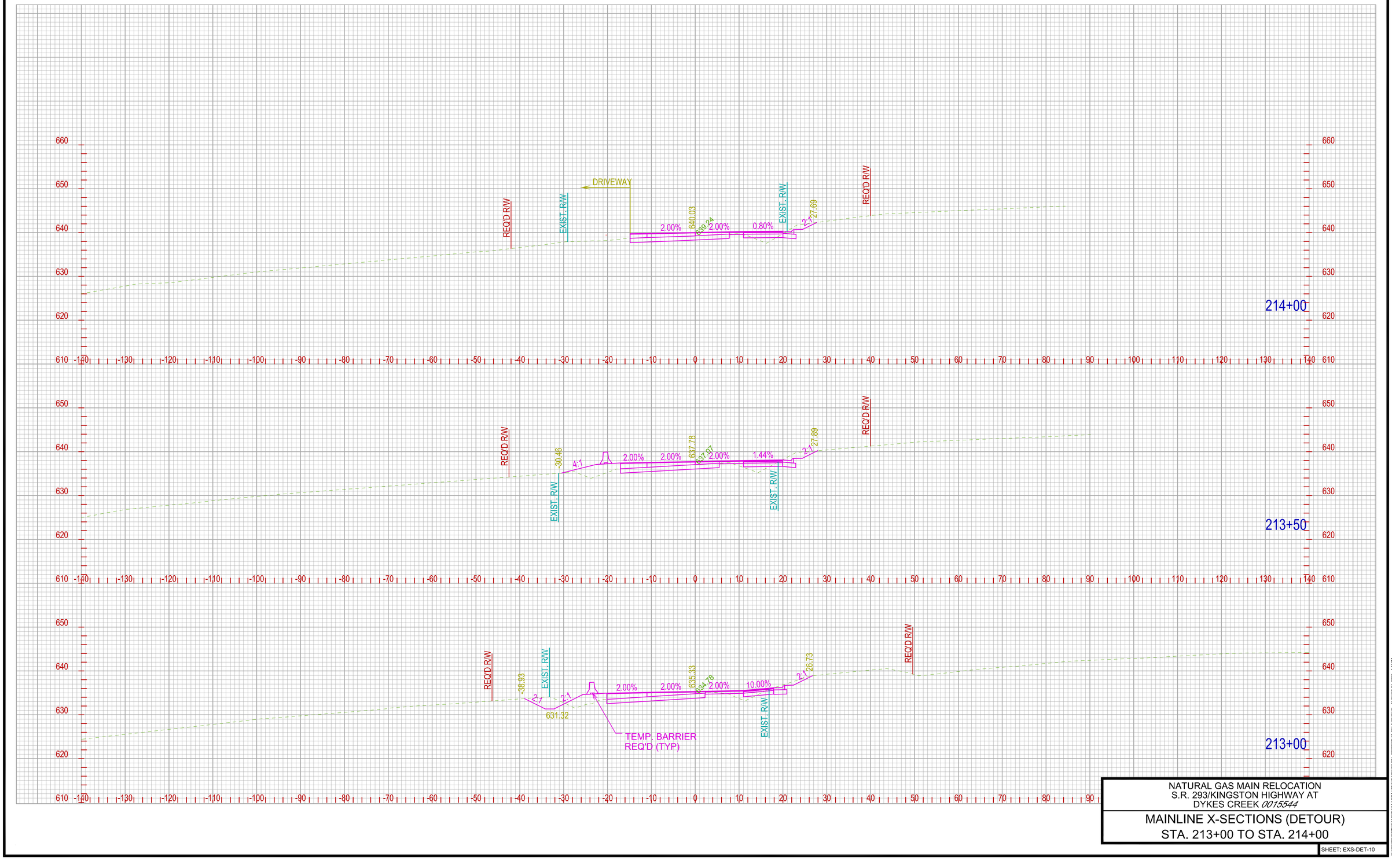
SHEET: EXS-DET-08



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 211+50 TO STA. 212+50

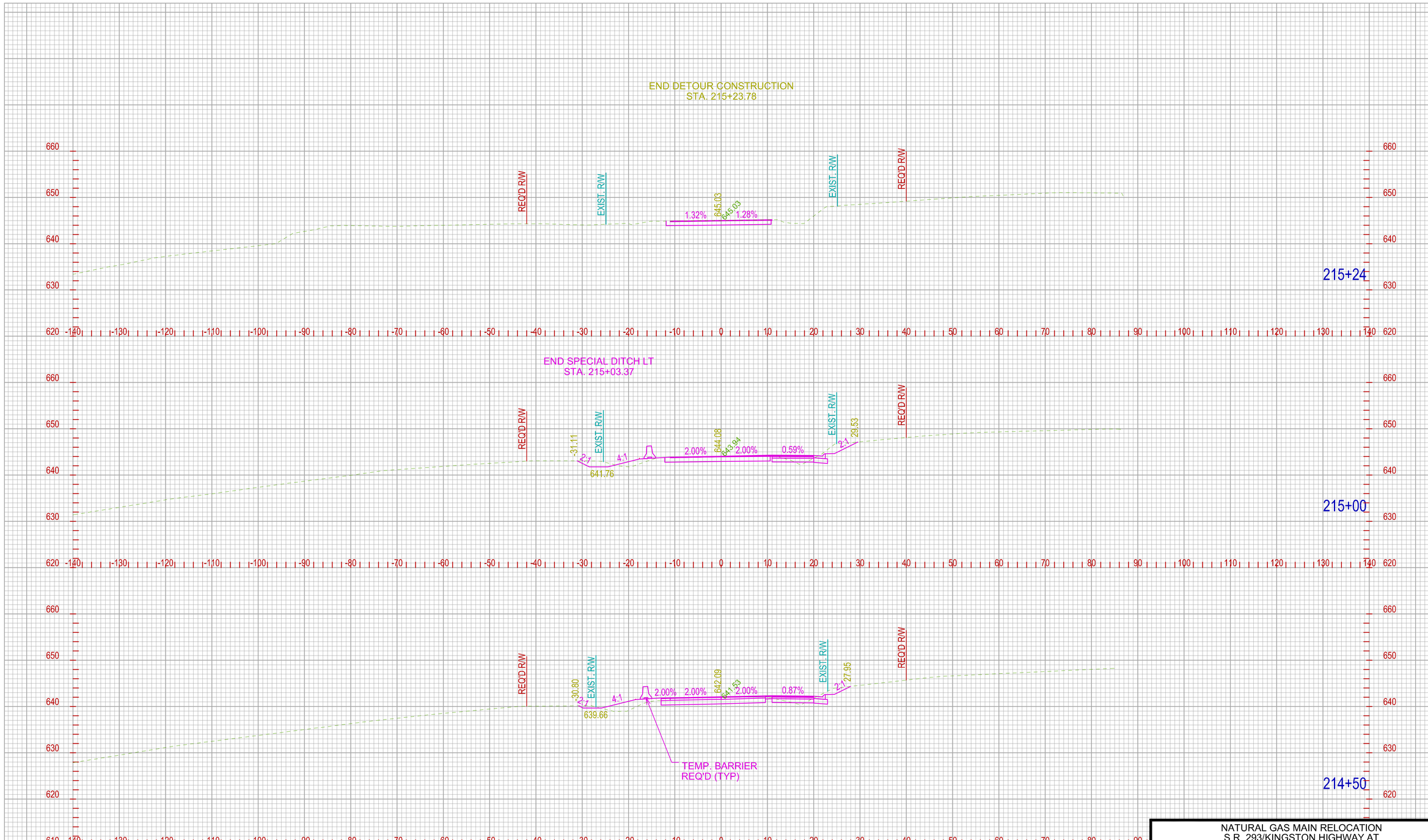
SHEET: EXS-DET-09



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 213+00 TO STA. 214+00

SHEET: EXS-DET-10



NATURAL GAS MAIN RELOCATION
S.R. 293/KINGSTON HIGHWAY AT
DYKES CREEK *0015544*

MAINLINE X-SECTIONS (DETOUR)
STA. 214+50 TO STA. 215+24

SHEET: EXS-DET-11