

FORBESTOWN DITCH PROJECT

NORTH YUBA WATER DISTRICT

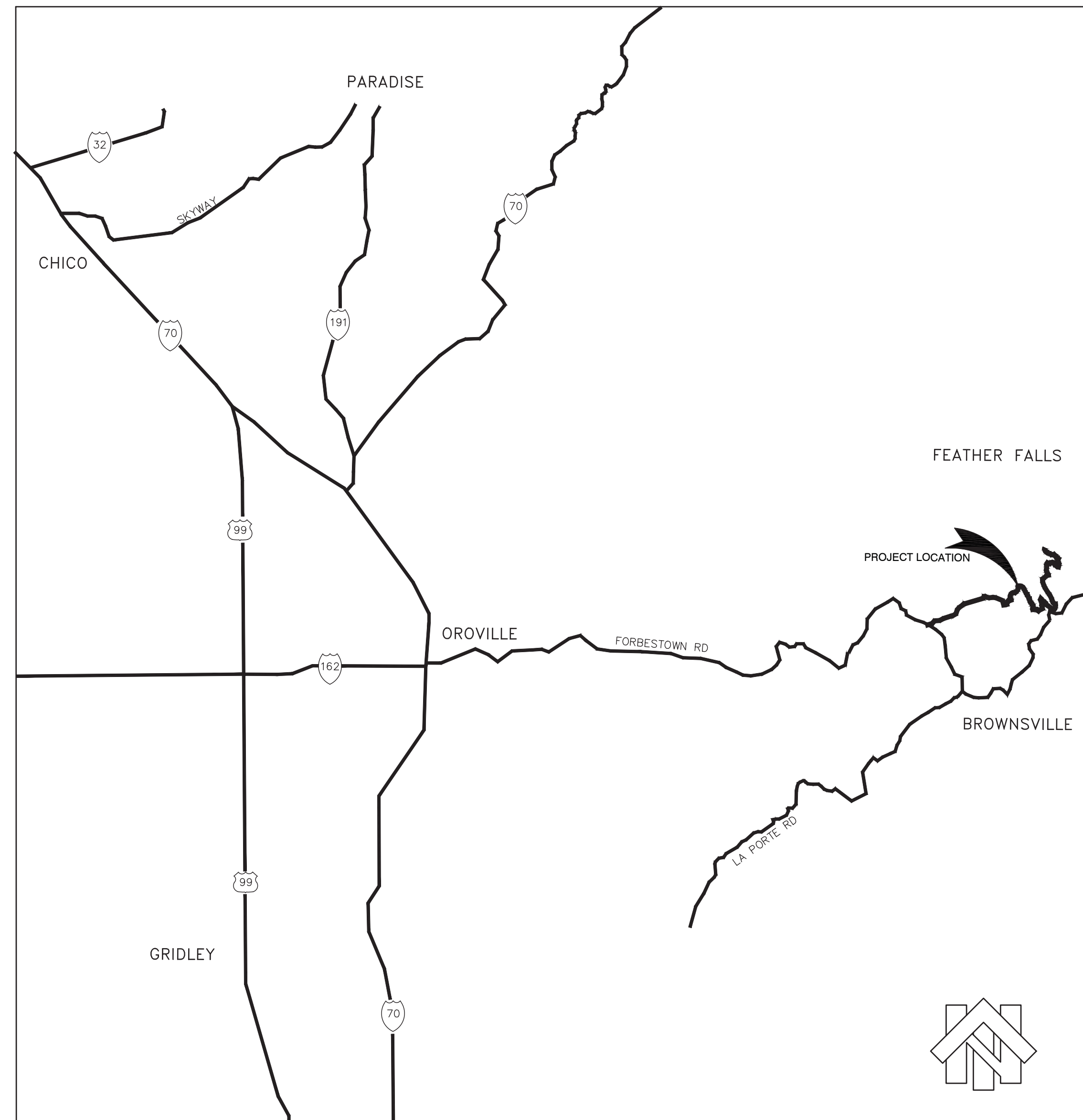
AUGUST, 2019

ABBREVIATIONS

| | |
|------------------------------|--------|
| ADVANCE DRAINAGE SYSTEM, INC | ADS |
| AGGREGATE BASE | AB |
| ASPHALT CONCRETE | AC |
| BOTTOM | BOT |
| CLEARANCE | CLR |
| CORRUGATED METAL PIPE | CMP |
| DRIVEWAY | DW |
| EXISTING | EX |
| EDGE OF TRAVELED WAY | ETW |
| FINISH GRADE | FG |
| FLOWLINE | FL |
| GRADE BREAK | GB |
| GRAVEL | GRVL |
| HIGH DENSITY POLYETHYLENE | HDPE |
| HOT MIXED ASPHALT | HMA |
| INVERT | INV |
| MAXIMUM | MAX |
| MINIMUM | MIN |
| NORTH YUBA WATER DISTRICT | NYWD |
| ON CENTER | O.C. |
| ORIGINAL GRADE | OG |
| PROPOSED | P |
| RELATIVE COMPACTION | RC |
| REINFORCED CONCRETE PIPE | RCP |
| RIGHT OF WAY | ROW |
| STANDARD | STD |
| TYPICAL | TYP. |
| UNLESS OTHERWISE NOTED | U.O.N. |

LEGEND

| | |
|----------------|--|
| --- | PROPERTY LINE (FOR REFERENCE ONLY) |
| --- | CENTERLINE (FOR STATIONING ONLY) |
| --- | EXISTING EDGE OF ROADWAY / PAVEMENT |
| == [24" SD] == | EXISTING CMP/CULVERT |
| --- | EXISTING FLOW LINE |
| --- | EXISTING TOE |
| --- | EXISTING TOP |
| --- | EXISTING CONCRETE |
| • | PROPOSED HDPE ELBOW FITTING |
| ■ | PROPOSED PIPE FLOW TURN OUT STRUCTURE (SEE DETAIL E/SHEET 43 FOR INFORMATION) |
| ⊗ | PROPOSED 36" PIPE ACCESS PORT (SEE DETAIL F/SHEET 43 FOR INFORMATION) |
| --- | PROPOSED HDPE PIPE (SEE DETAIL A & B/SHEET 43 FOR INFORMATION) |
| △ | CONTROL POINT |
| ★ | PROPOSED TRIBUTARY DRAINAGE (SEE DETAIL C/SHEET 43 FOR INFORMATION) |
| ★ | PROPOSED STAGING AREA |
| --- | EXISTING ROAD (APPROXIMATE LOCATION) |



LOCATION MAP (NTS)

SHEET INDEX

| SHEET NO. | SHEET TITLE |
|-----------|---|
| 1 | TITLE SHEET |
| 2 | CONTROL PLAN - STA. 10+25 TO STA. 426+00 |
| 3 | CONTROL PLAN - STA. 450+00 TO STA. 535+00 |
| 4 | PLAN AND PROFILE - STA. 10+25 TO STA. 22+00 |
| 5 | PLAN AND PROFILE - STA. 22+00 TO STA. 35+00 |
| 6 | PLAN AND PROFILE - STA. 35+00 TO STA. 49+00 |
| 7 | PLAN AND PROFILE - STA. 49+00 TO STA. 60+82 |
| 8 | PLAN AND PROFILE - STA. 70+00 TO STA. 84+00 |
| 9 | PLAN AND PROFILE - STA. 84+00 TO STA. 98+00 |
| 10 | PLAN AND PROFILE - STA. 98+00 TO STA. 111+00 |
| 11 | PLAN AND PROFILE - STA. 111+00 TO STA. 124+00 |
| 12 | PLAN AND PROFILE - STA. 124+00 TO STA. 137+00 |
| 13 | PLAN AND PROFILE - STA. 137+00 TO STA. 150+00 |
| 14 | PLAN AND PROFILE - STA. 150+00 TO STA. 163+00 |
| 15 | PLAN AND PROFILE - STA. 163+00 TO STA. 176+00 |
| 16 | PLAN AND PROFILE - STA. 176+00 TO STA. 189+00 |
| 17 | PLAN AND PROFILE - STA. 189+00 TO STA. 202+00 |
| 18 | PLAN AND PROFILE - STA. 202+00 TO STA. 215+00 |
| 19 | PLAN AND PROFILE - STA. 215+00 TO STA. 228+00 |
| 20 | PLAN AND PROFILE - STA. 228+00 TO STA. 241+00 |
| 21 | PLAN AND PROFILE - STA. 241+00 TO STA. 251+00 |
| 22 | PLAN AND PROFILE - STA. 260+00 TO STA. 273+00 |
| 23 | PLAN AND PROFILE - STA. 273+00 TO STA. 286+00 |
| 24 | PLAN AND PROFILE - STA. 286+00 TO STA. 299+00 |
| 25 | PLAN AND PROFILE - STA. 299+00 TO STA. 312+00 |
| 26 | PLAN AND PROFILE - STA. 312+00 TO STA. 325+00 |
| 27 | PLAN AND PROFILE - STA. 325+00 TO STA. 338+00 |
| 28 | PLAN AND PROFILE - STA. 338+00 TO STA. 351+00 |
| 29 | PLAN AND PROFILE - STA. 351+00 TO STA. 364+00 |
| 30 | PLAN AND PROFILE - STA. 364+00 TO STA. 377+00 |
| 31 | PLAN AND PROFILE - STA. 377+00 TO STA. 391+00 |
| 32 | PLAN AND PROFILE - STA. 400+00 TO STA. 413+00 |
| 33 | PLAN AND PROFILE - STA. 413+00 TO STA. 426+00 |
| 34 | PLAN AND PROFILE - STA. 450+00 TO STA. 463+00 |
| 35 | PLAN AND PROFILE - STA. 463+00 TO STA. 476+00 |
| 36 | PLAN AND PROFILE - STA. 476+00 TO STA. 491+00 |
| 37 | PLAN AND PROFILE - STA. 500+00 TO STA. 513+00 |
| 38 | PLAN AND PROFILE - STA. 513+00 TO STA. 525+00 |
| 39 | PLAN AND PROFILE - STA. 525+00 TO STA. 535+00 |
| 40 | PLAN AND PROFILE (OROLEVE) - STA. 597+00 TO STA. 610+00 |
| 41 | PLAN AND PROFILE (OROLEVE) - STA. 610+00 TO STA. 623+00 |
| 42 | PLAN AND PROFILE (OROLEVE) - STA. 623+00 TO STA. 636+00 |
| 43 | DETAILS SHEET |
| 44 | DETAILS SHEET |
| 45 | DETAILS SHEET |



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|----------|-------------------|-----------------------------|-----------|-----|
| 6/3/2019 | Designed: RDG | Revision | Date | By |
| | Drawn By: RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | |
| | Date: AUGUST 2019 | | | |



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NORTH YUBA WATER DISTRICT
8691 LA PORTE ROAD
BROWNSVILLE, CA 95919

FORBESTOWN DITCH PROJECT

TITLE SHEET

| | | | | |
|---------------------------|----------------------|-----------------------|--------------|---------------|
| APN Number 000-000-000 | Job Number 17-002 | Scale N/A Horz. | N/A Vert. | Sheet 1 Of 45 |
|---------------------------|----------------------|-----------------------|--------------|---------------|

BASIS OF COORDINATES:

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATES SYSTEM OF 1983, CCS83, ZONE 2 (2011.00)(EPOCH 2010.0000). SAID COORDINATES ARE BASED UPON POST PROCESSED GPS SURVEYS WITH TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK, CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS):

REFERENCED NGS CORS STATIONS:

| CORS STATIONS | NORTHING | EASTING | NAVD88 ELEVATION |
|---|---------------|--------------|------------------|
| PID:DM7533 DESIGNATION: P140 SLATEMTN_CN2006 CORS ARP | 2,066,487.56 | 6,933,924.08 | 3,629.5 |
| PID: DN7521 DESIGNATION: P146 SIGNALPEAKCN2006 CORS ARP | 2,252,236.41 | 6,975,349.15 | 7,780.2 |
| PID: DN7524 DESIGNATION: P148 GOATMTN_CN2006 CORS ARP | 2,038,034.19 | 6,894,108.17 | 5,275.4 |
| PID: P149 DESIGNATION: DN5642 BABBITPK_CN2008 CORS ARP | 2,350,873.66 | 7,095,592.77 | 8,722.5 |
| PID: DM7545 DESIGNATION P270 HOPKINSLGHCM2005 CORS ARP | 2,214,787.53 | 6,546,034.18 | 58.1 |
| PID: DN5654 DESIGNATION P344 VINAHELITKCN2006 CORS ARP | 1,857,466.21 | 6,553,826.01 | 256.5 |
| PID: DN7395 DESIGNATION: P346 BUZZARDRSTCN2007 CORS ARP | 1,810,556.12 | 6,879,923.33 | 6,763.0 |
| PID: AF9711 DESIGNATION: SUTB SUTTER BUTTES CORS ARP | 2,201,017.20 | 6,612,505.47 | 2,119.3 |
| PID: AF9564 DESIGNATION: QUIN QUINCY CORS ARP | 1,875,796.84 | 6,857,507.43 | 3,708.1 |
| PID: DE6254 DESIGNATION: RN01 NW RENO COOP CORS ARP | 14,869,133.90 | 2,257,346.42 | 5,101.8 |
| PID: DE6260 DESIGNATION STEA STEAD COOP CORS ARP | 14,901,045.67 | 2,258,412.07 | 5,113.4 |

NORTHSTAR CONTROL POINTS:

| POINT NUMBER | NORTHING | EASTING | NAVD88 ELEVATION | DESCRIPTION | COMBINED SCALE FACTOR | CONVERGENCE ANGLE |
|--------------|-------------|-------------|------------------|-------------------|-----------------------|-------------------|
| 201 | 2327891.655 | 6788861.086 | 3150.42 | CTL REBAR | 0.99980149 | 0°30'29" |
| 202 | 2322968.271 | 6788672.580 | 3144.98 | CTL REBAR | 0.99979986 | 0°30'27" |
| 203 | 2317484.346 | 6790951.497 | 3153.80 | CTL BRIDGE SPIKE | 0.99979739 | 0°30'45" |
| 204 | 2319545.723 | 6786084.481 | 3130.73 | CTL REBAR AND CAP | 0.99979928 | 0°30'06" |
| 206 | 2318146.548 | 6781923.633 | 3098.65 | CTL REBAR AND CAP | 0.99980032 | 0°29'32" |
| 207 | 2319556.237 | 6780441.842 | 2869.91 | CTL 60D | 0.99981177 | 0°29'20" |
| 208 | 2319496.925 | 6780520.432 | 2885.74 | CTL 60D | 0.99981099 | 0°29'21" |
| 209 | 2316161.725 | 6772704.003 | 2773.46 | CTL MAG | 0.99981518 | 0°28'18" |
| 210 | 2319398.632 | 6778293.294 | 2859.09 | CTL 60 D | 0.99981224 | 0°29'03" |
| 211 | 2318372.726 | 6775226.936 | 2779.99 | CTL 60 D | 0.99981566 | 0°28'38" |
| 212 | 2318430.089 | 6775299.465 | 2777.70 | CTL 60 D | 0.99981579 | 0°28'39" |
| 213 | 2318123.887 | 6774739.479 | 2773.31 | CTL 60 D | 0.99981589 | 0°28'34" |
| 214 | 2318248.221 | 6774824.052 | 2776.80 | CTL 60 D | 0.99981577 | 0°28'35" |
| 215 | 2314638.790 | 6769085.400 | 2779.11 | CTL RB | 0.99981412 | 0°27'49" |
| 216 | 2314637.651 | 6767858.327 | 2753.27 | CTL RB | 0.99981536 | 0°27'39" |
| 17002 | 2327543.889 | 6788860.854 | 3128.91 | CTL REBAR AND CAP | 0.99980209 | 0°30'29" |
| 17019 | 2317117.652 | 6787720.686 | 3163.30 | CTL 60D | 0.99979652 | 0°30'19" |
| 17020 | 2319185.775 | 6781528.527 | 3103.35 | CTL REBAR AND CAP | 0.99980019 | 0°29'29" |

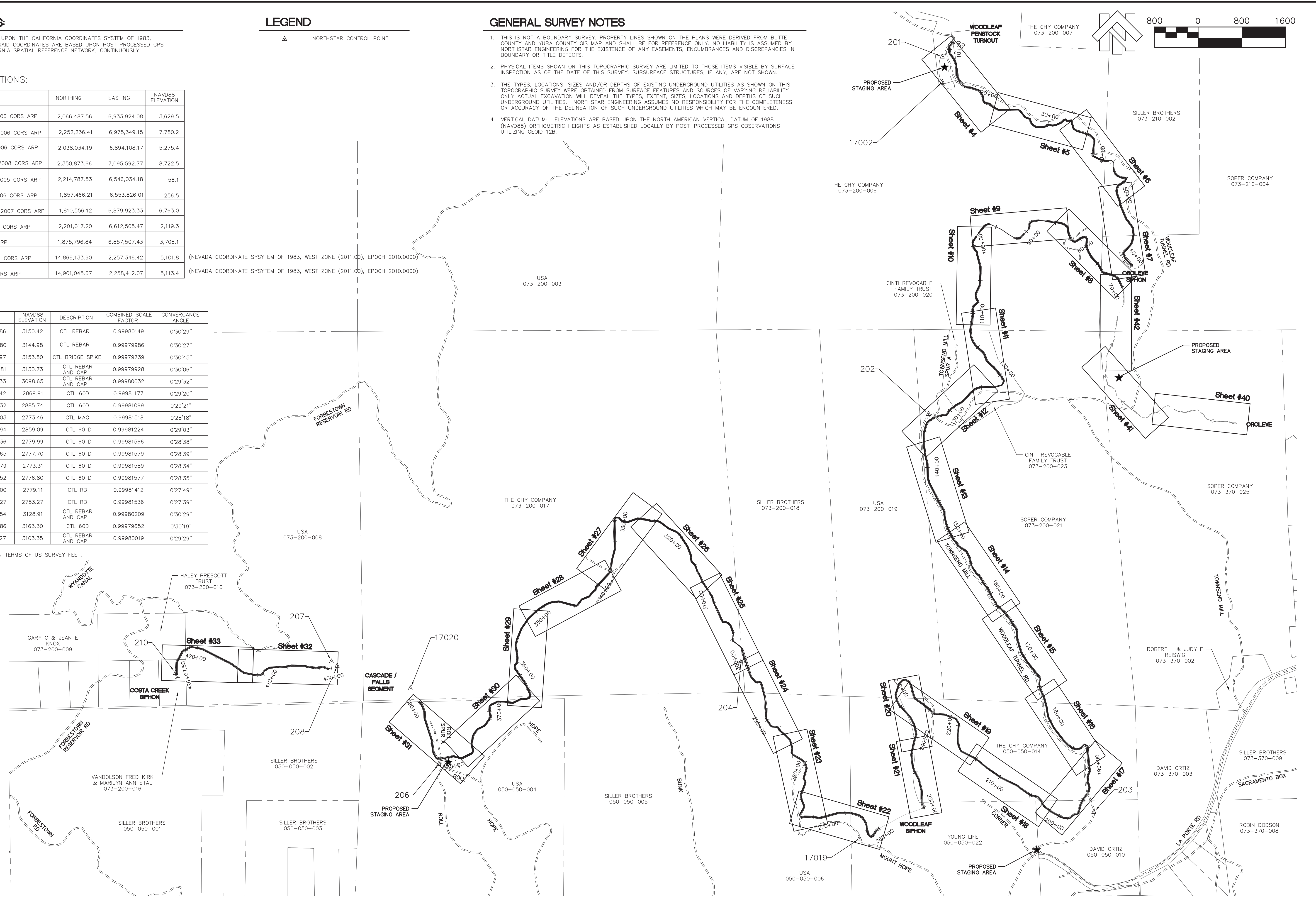
ALL COORDINATES SHOWN ARE GRID AND ARE IN TERMS OF US SURVEY FEET.

LEGEND

▲ NORTHSTAR CONTROL POINT

GENERAL SURVEY NOTES

- THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN ON THE PLANS WERE DERIVED FROM BUTTE COUNTY AND YUBA COUNTY GIS MAP AND SHALL BE FOR REFERENCE ONLY. NO LIABILITY IS ASSUMED BY NORTHSTAR ENGINEERING FOR THE EXISTENCE OF ANY EASEMENTS, ENCUMBRANCES AND DISCREPANCIES IN BOUNDARY OR TITLE DEFECTS.
- PHYSICAL ITEMS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE LIMITED TO THOSE ITEMS VISIBLE BY SURFACE INSPECTION AS OF THE DATE OF THIS SURVEY. SUBSURFACE STRUCTURES, IF ANY, ARE NOT SHOWN.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SURFACE FEATURES AND SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. NORTHSTAR ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
- VERTICAL DATUM: ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ORTHOMETRIC HEIGHTS AS ESTABLISHED LOCALLY BY POST-PROCESSED GPS OBSERVATIONS UTILIZING GEOID 12B.



| | | | |
|-------------------|-----------------------------|-----------|-----|
| Designed: RDG | Revision | Date | By |
| Drawn By: RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| Approved: | | | |
| Date: AUGUST 2019 | | | |

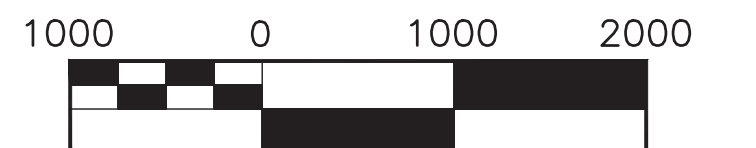
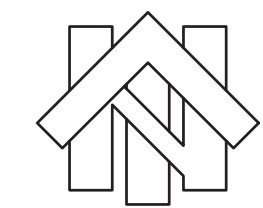
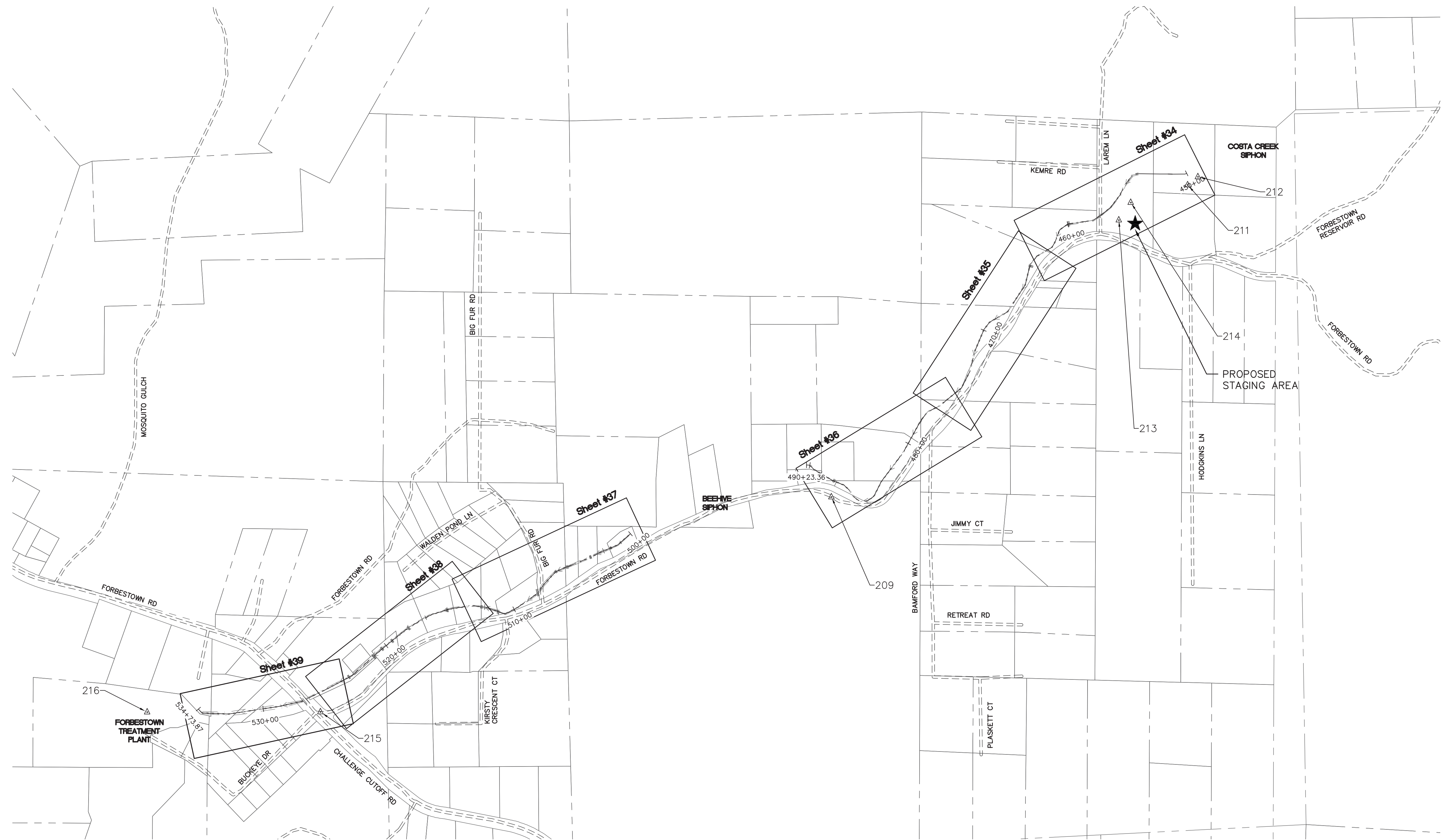
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| | | | |
|---|----------------------|---|---------------|
| FORBESTOWN DITCH PROJECT | | | |
| CONTROL PLAN - STA. 10+25 TO STA. 426+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale AS NOTED Horz. N/A Vert. N/A | Sheet 2 of 45 |

LEGEND

▲ NORTHSTAR CONTROL POINT

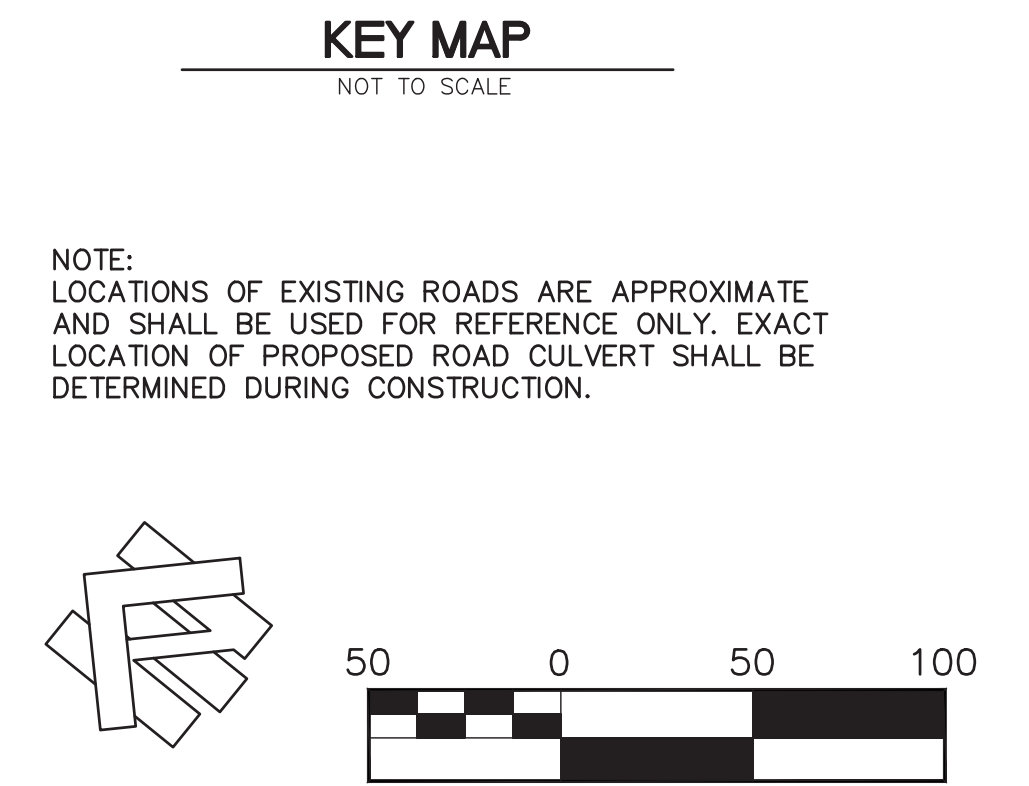
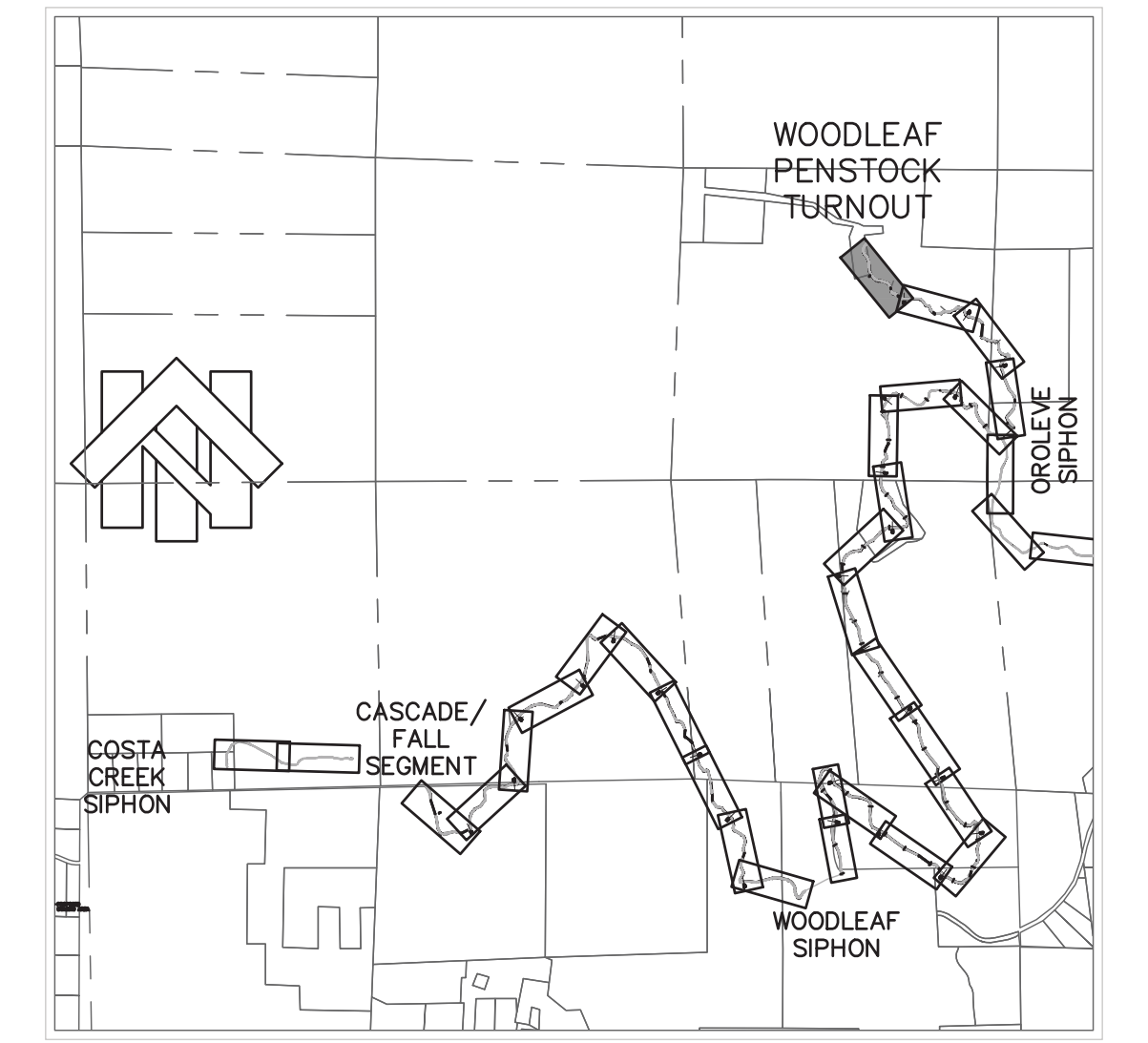
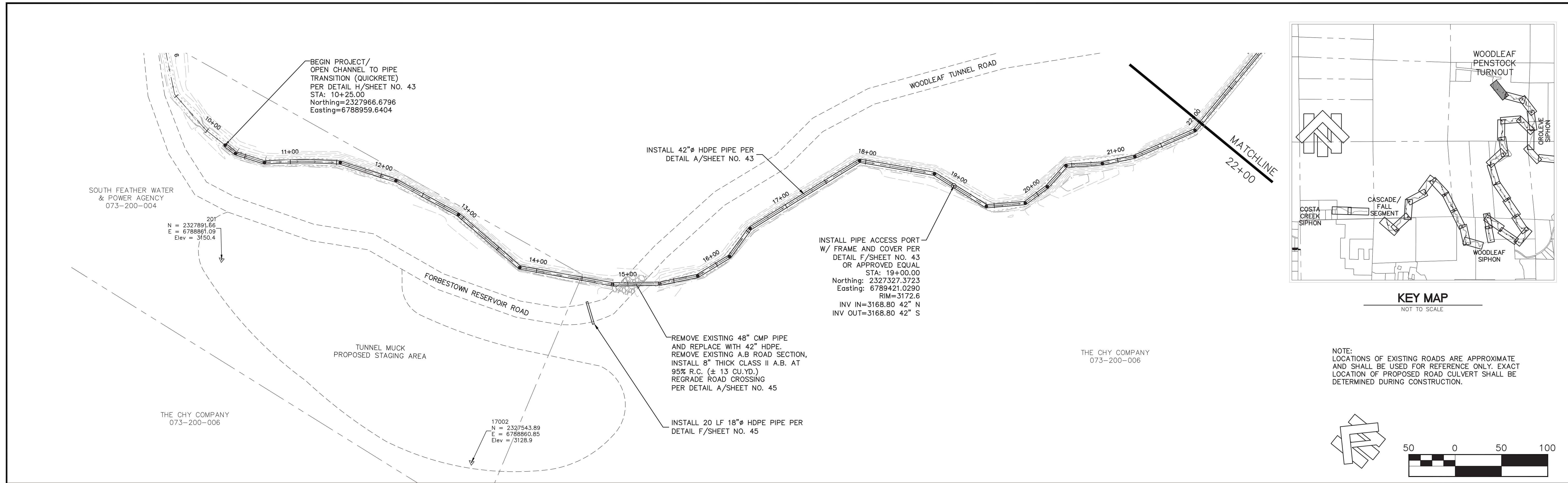


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| Approved: | | | |
| Date: AUGUST 2019 | | | |

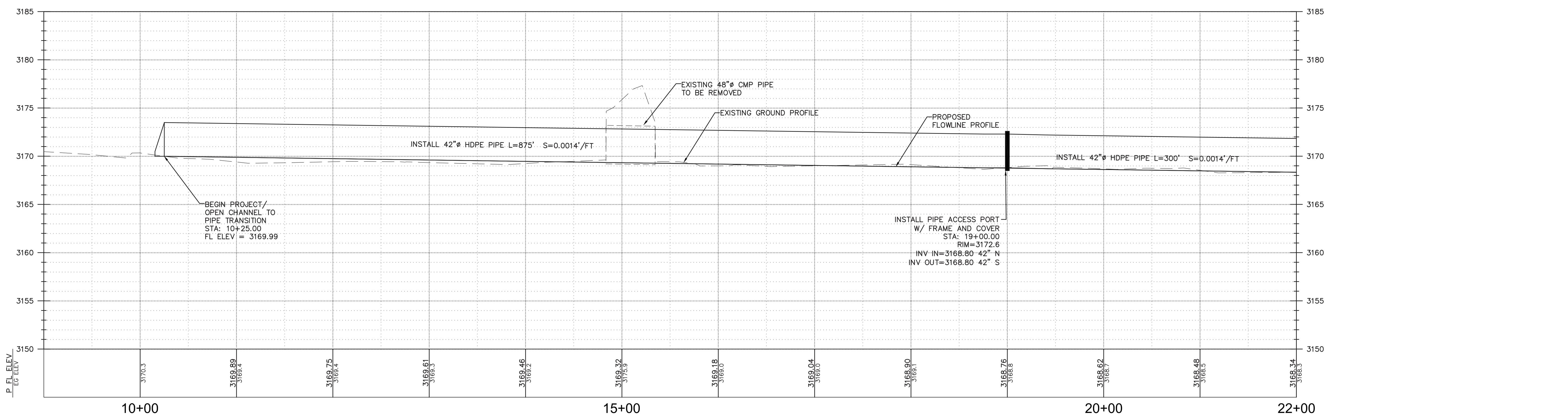
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| | | | |
|--|----------------------|---|---------------|
| FORBESTOWN DITCH PROJECT | | | |
| CONTROL PLAN - STA. 450+00 TO STA. 535+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale AS NOTED Horz. N/A Vert. N/A | Sheet 3 Of 45 |



NOTE:
LOCATIONS OF EXISTING ROADS ARE APPROXIMATE
AND SHALL BE USED FOR REFERENCE ONLY. EXACT
LOCATION OF PROPOSED ROAD CULVERT SHALL BE
DETERMINED DURING CONSTRUCTION.

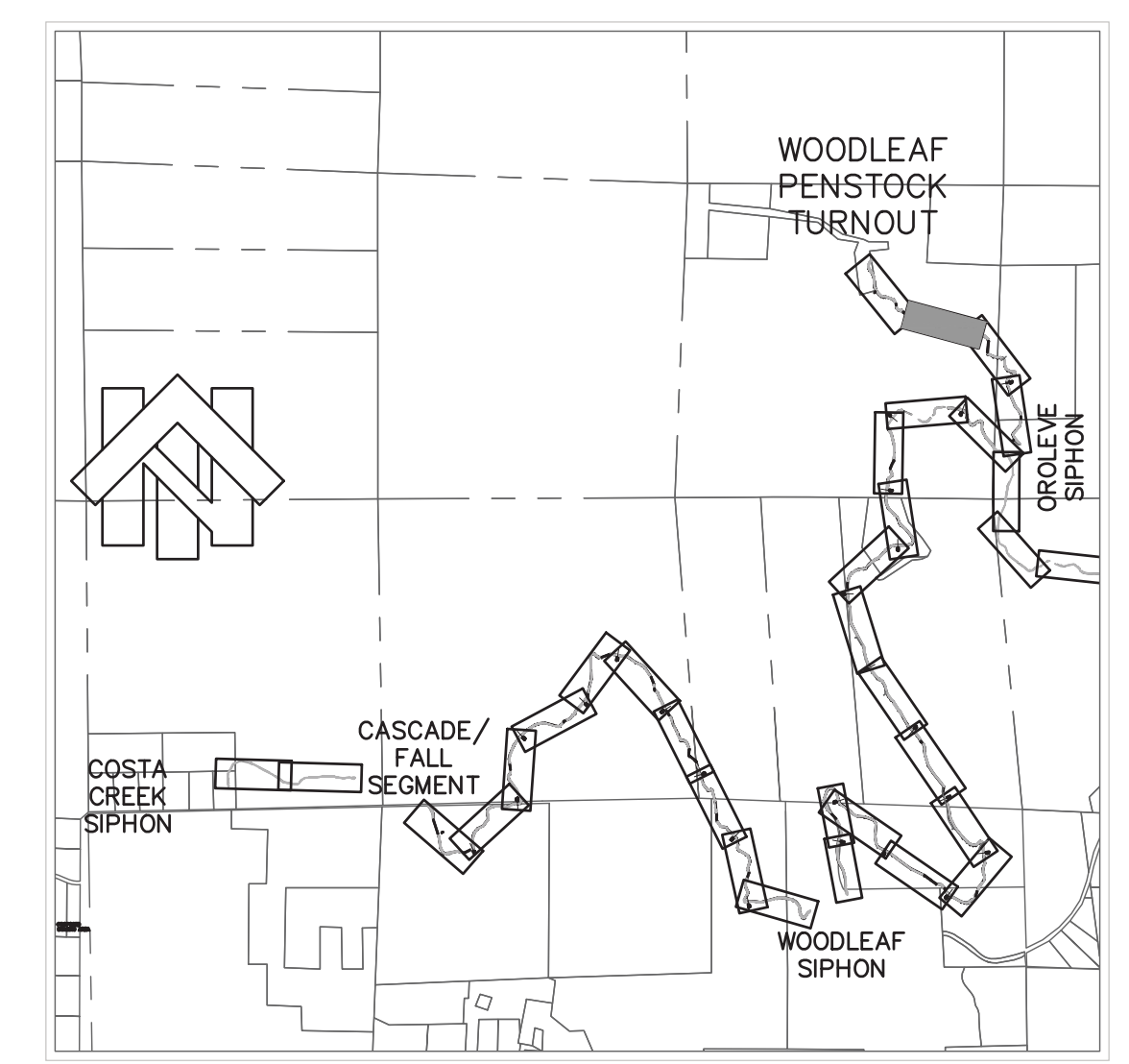
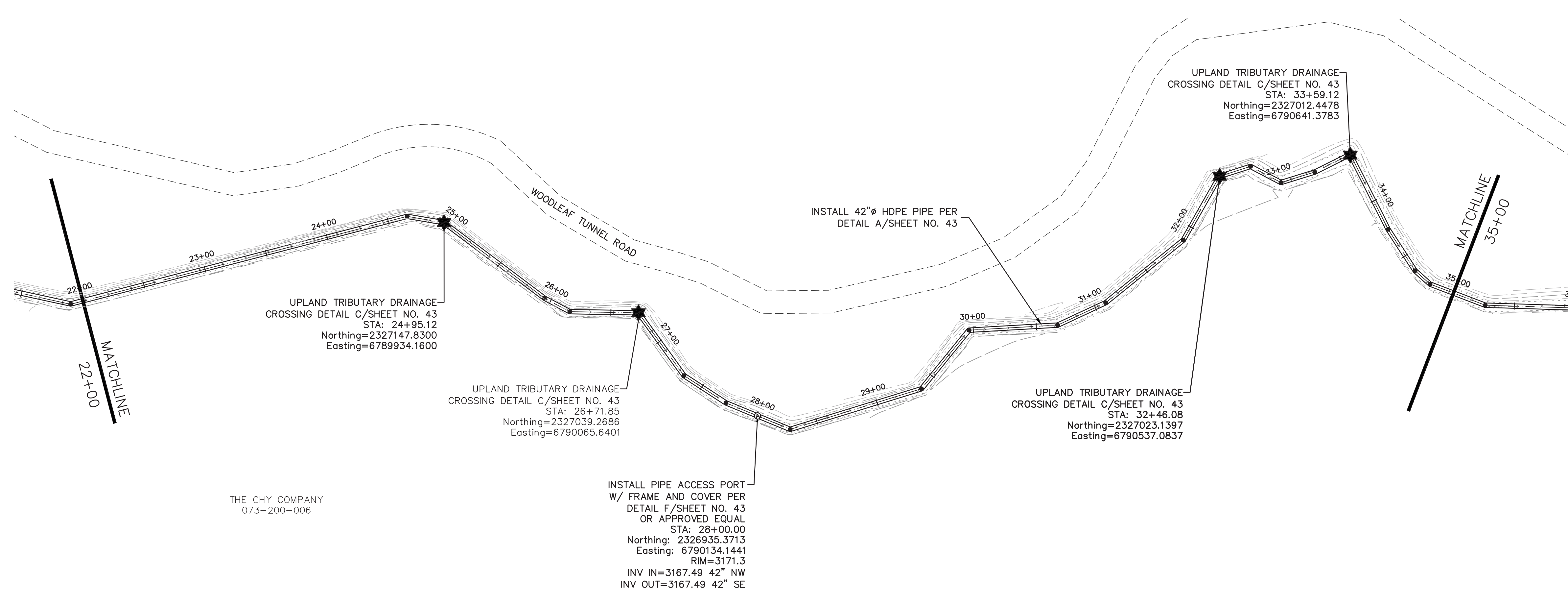


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| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



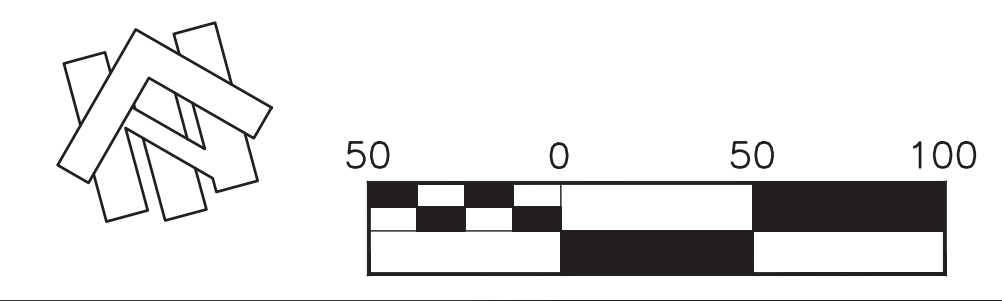
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| | | | |
|--|----------------------|--|---------------|
| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 10+25 TO STA. 22+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 4 Of 45 |



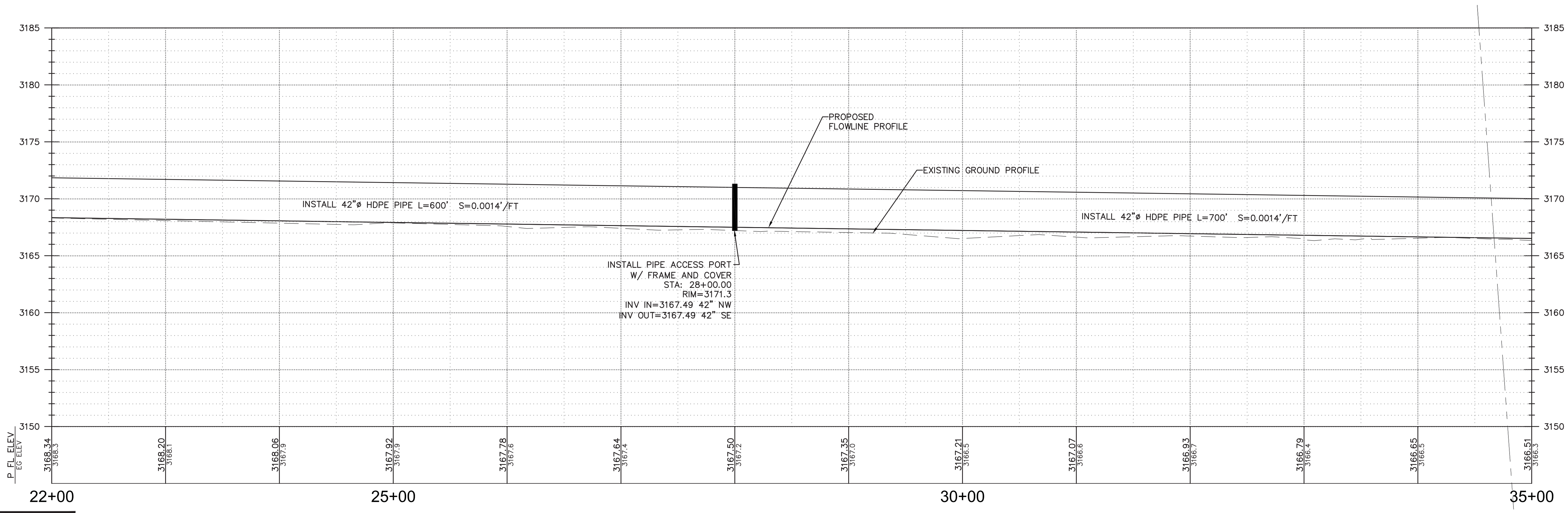
KEY MAP
NOT TO SCALE

NOTE:
LOCATIONS OF EXISTING ROADS ARE APPROXIMATE
AND SHALL BE USED FOR REFERENCE ONLY. EXACT



THE CHY COMPANY
073-200-006

INSTALL PIPE ACCESS PORT
W/ FRAME AND COVER PER
DETAIL F/SHEET NO. 43
OR APPROVED EQUAL
STA: 28+00.00
Northing: 2326935.3713
Easting: 6790134.1441
RIM=3171.3
INV IN=3167.49 42" NW
INV OUT=3167.49 42" SE



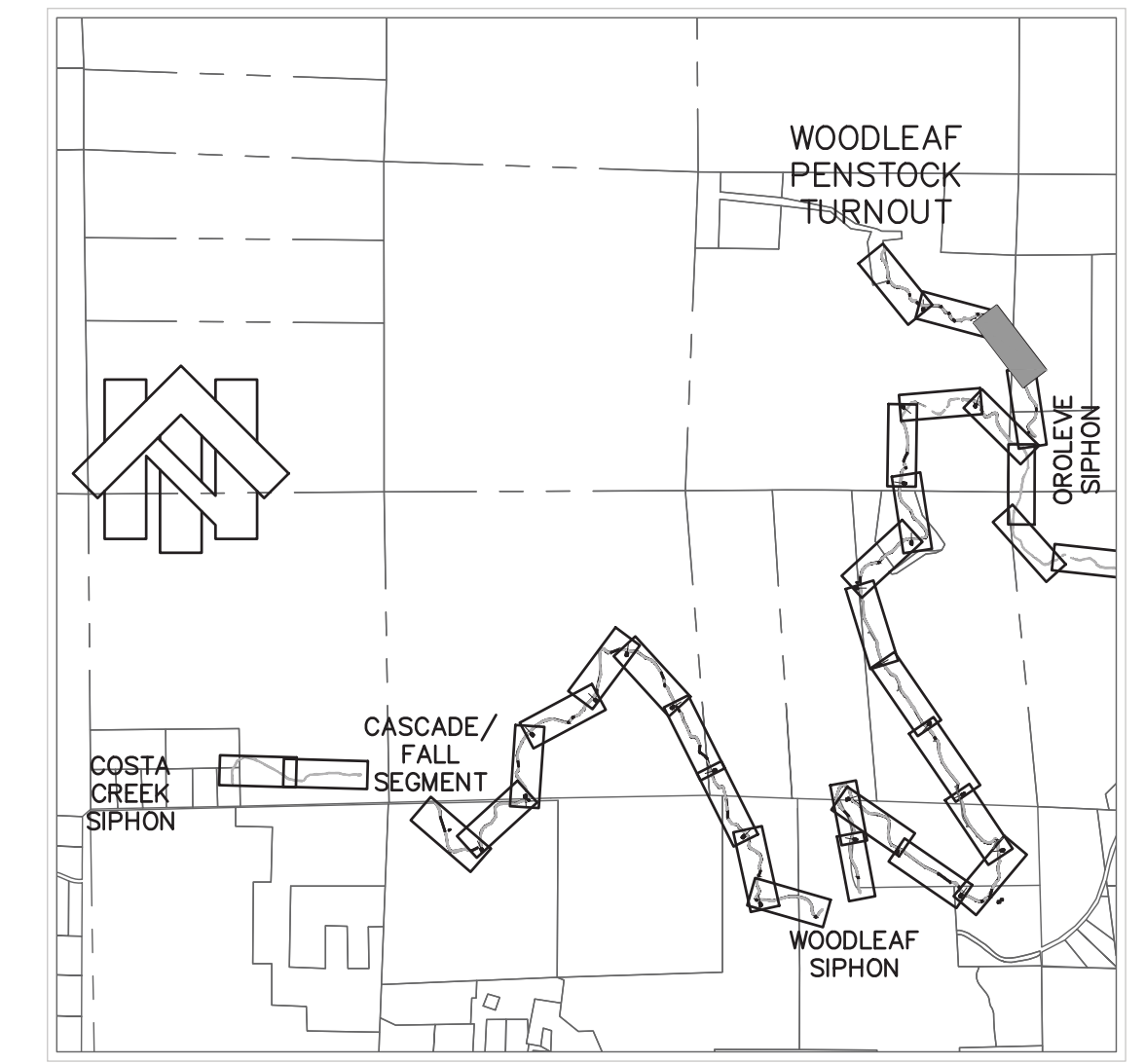
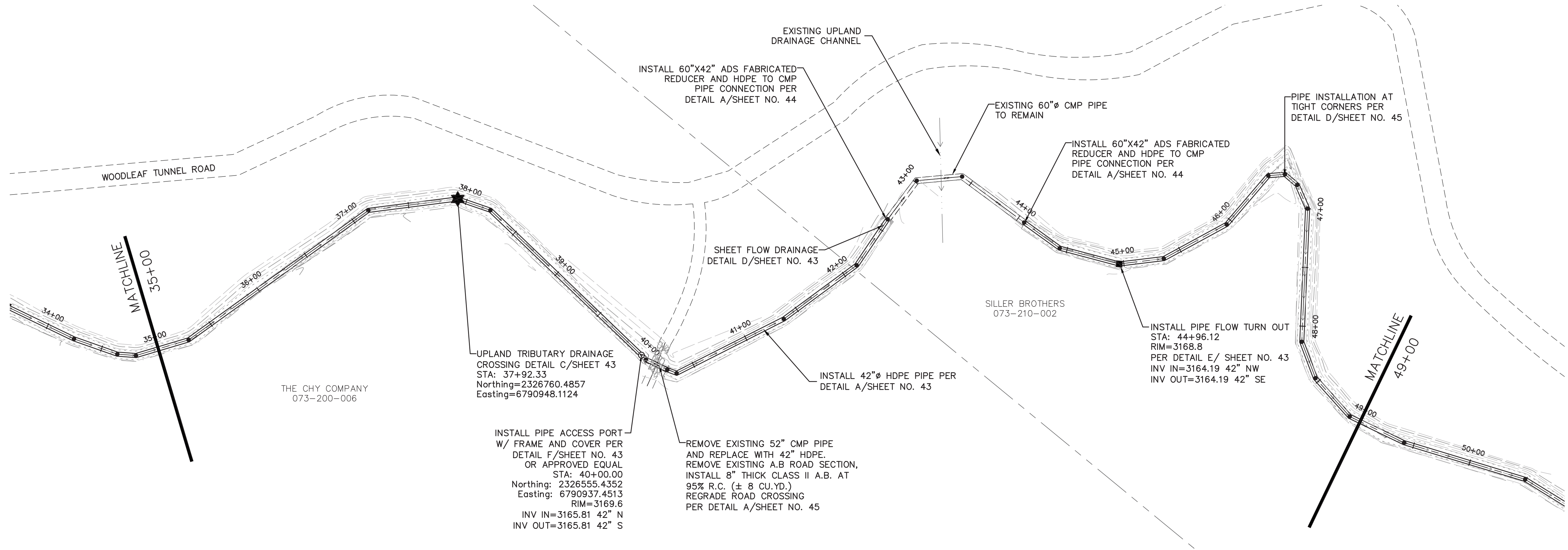
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| 6/3/2019 | Revision | Date | By |
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| Date: AUGUST 2019 | | | |

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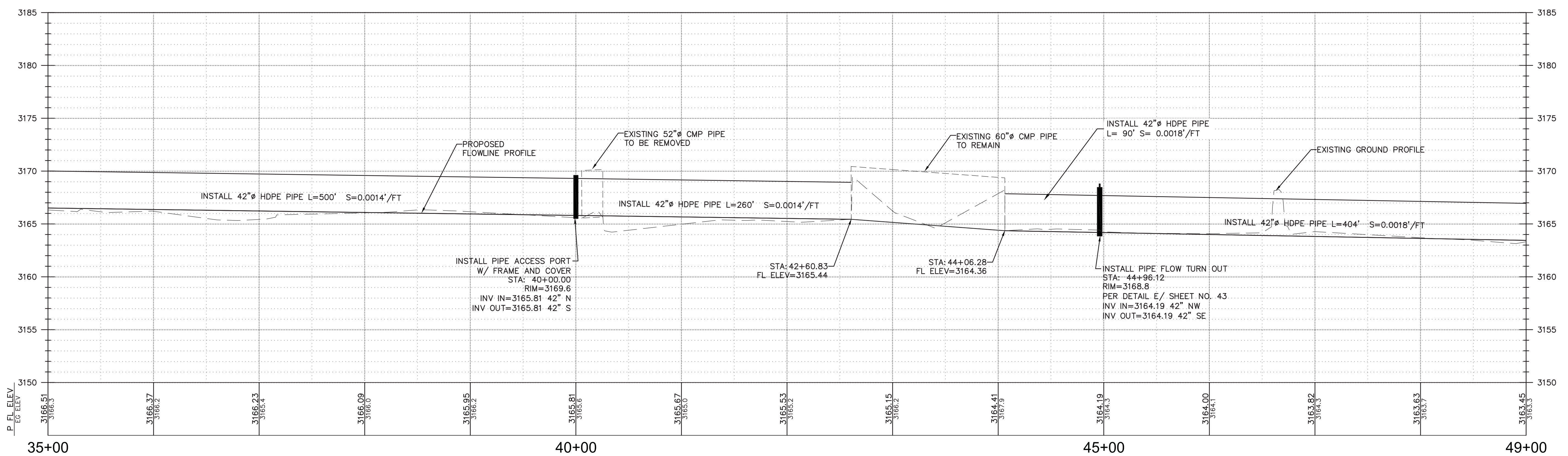
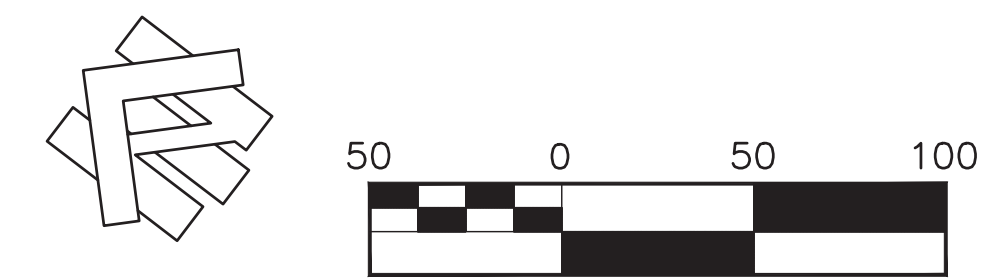
FORBESTOWN DITCH PROJECT
PLAN AND PROFILE - STA. 22+00 TO STA. 35+00

| | | | |
|---------------------------|----------------------|--|---------------|
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 5 Of 45 |
|---------------------------|----------------------|--|---------------|



KEY MAP
NOT TO SCALE

NOTE:
LOCATIONS OF EXISTING ROADS ARE APPROXIMATE
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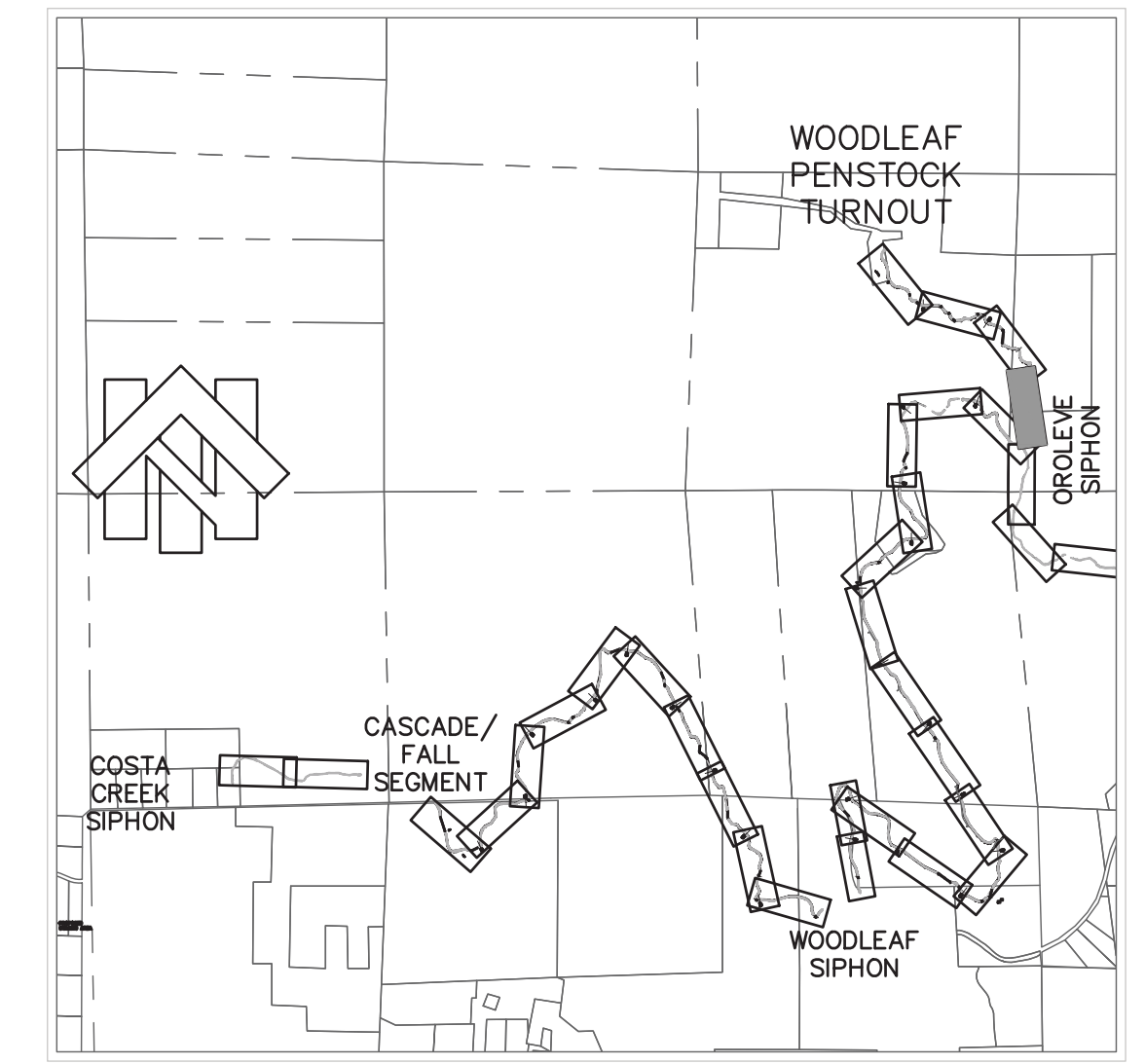
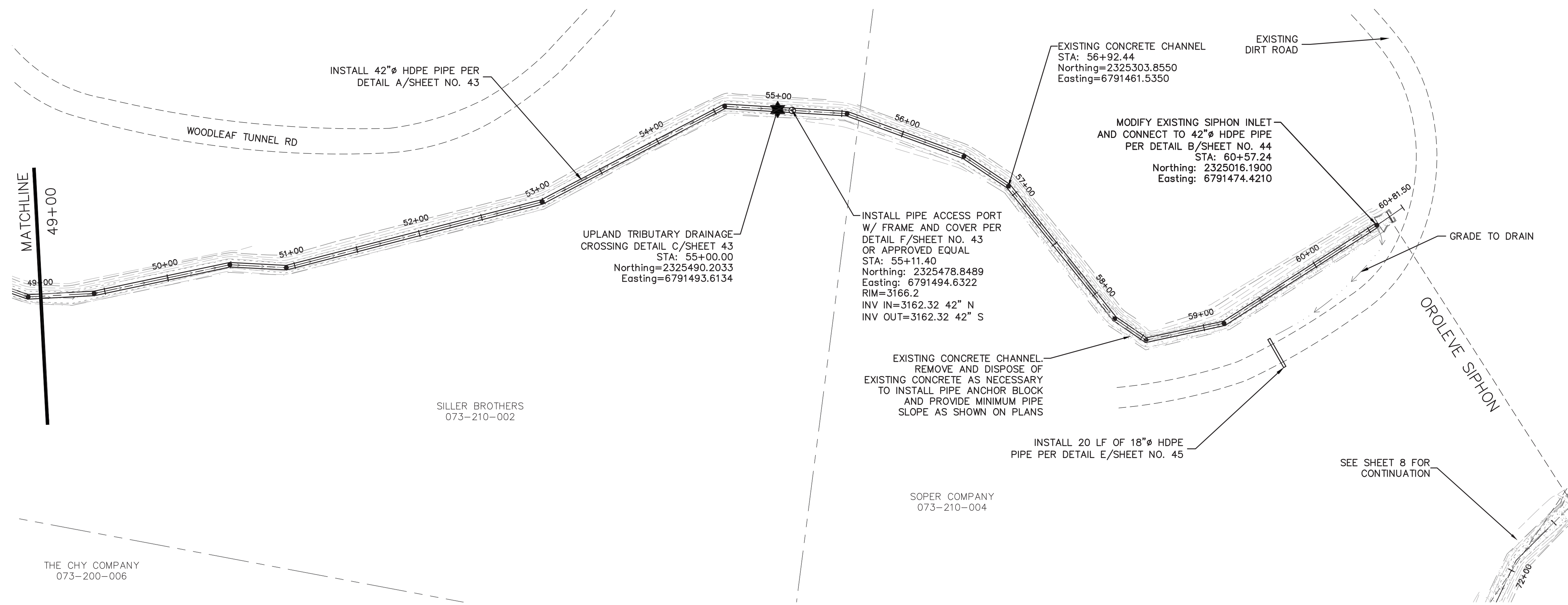


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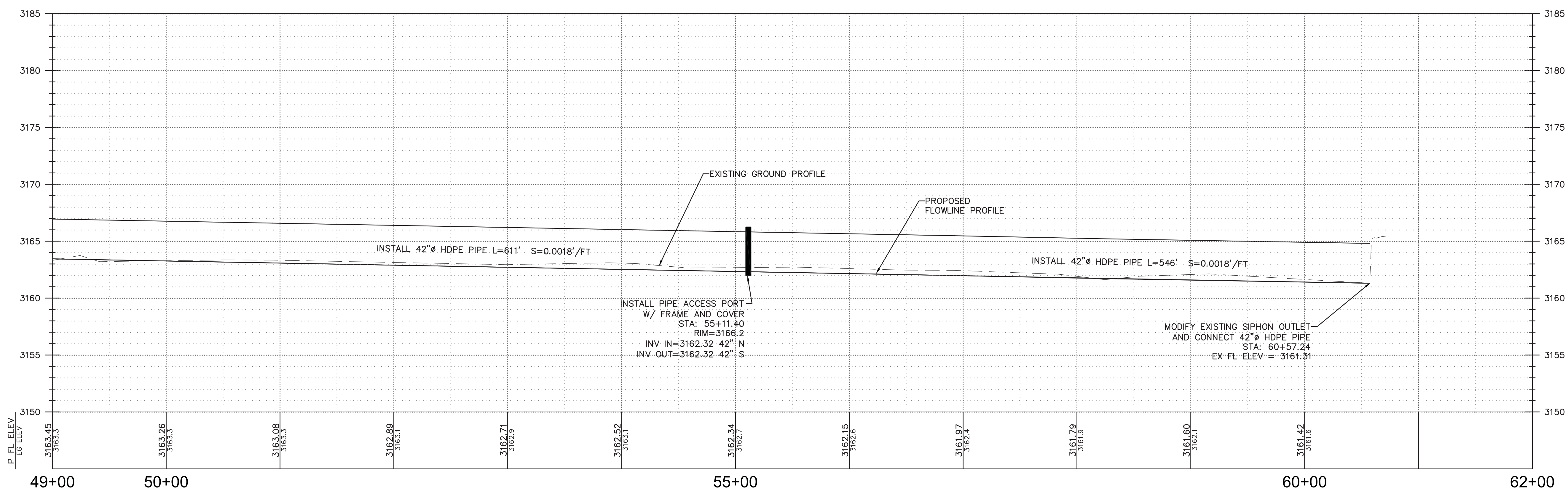
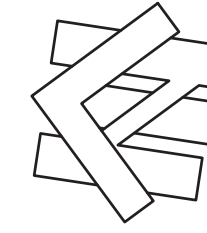
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| | | | |
|--|----------------------|--|---------------|
| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 35+00 TO STA. 49+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 6 Of 45 |



KEY MAP
NOT TO SCALE

NOTE: LOCATIONS OF EXISTING ROADS ARE APPROXIMATE AND SHALL BE USED FOR REFERENCE ONLY. EXACT LOCATION OF PROPOSED ROAD CULVERT SHALL BE DETERMINED DURING CONSTRUCTION.



| | | | | | |
|----------|-----------|-------------|-----------------------------|-----------|-----|
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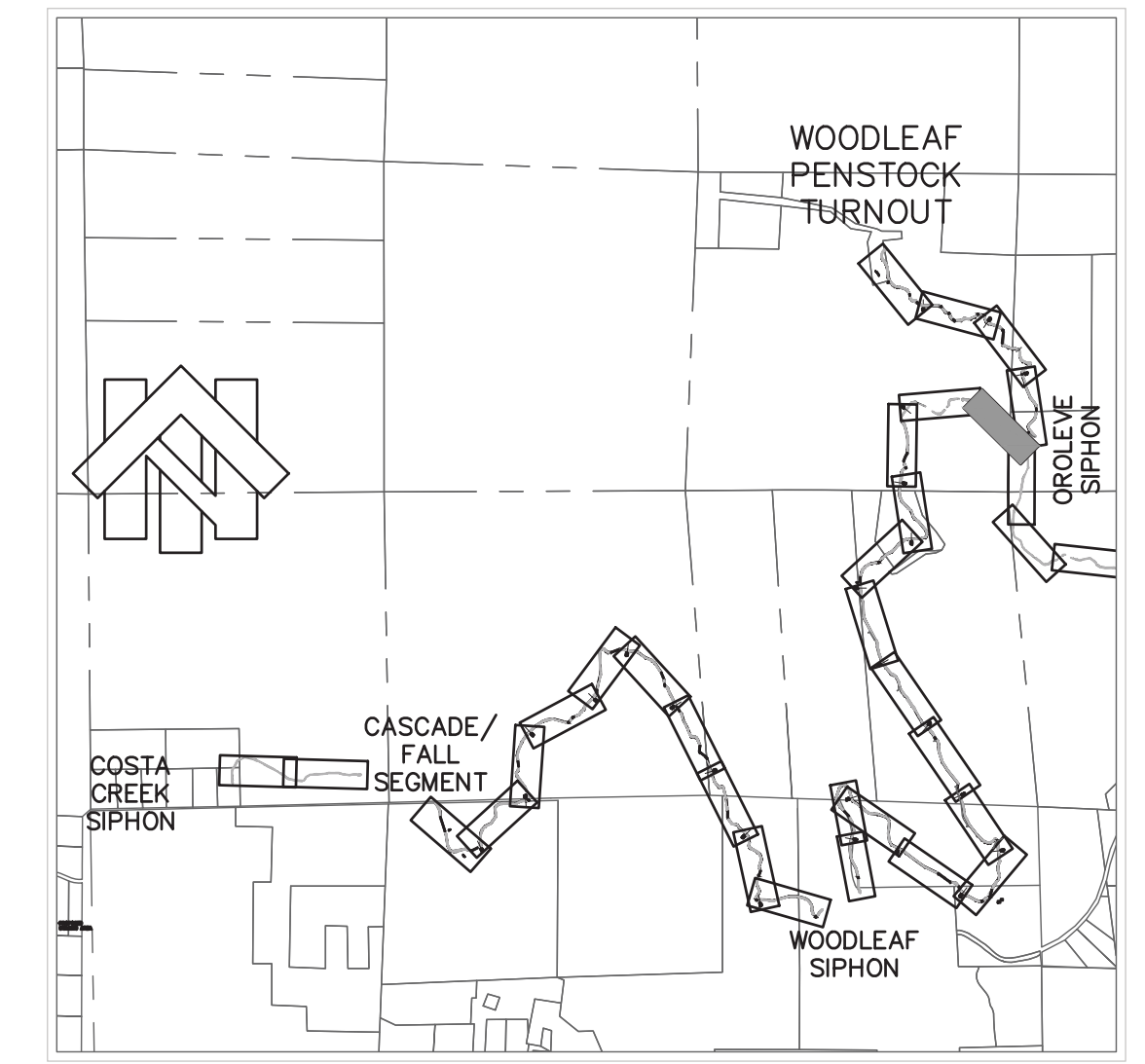
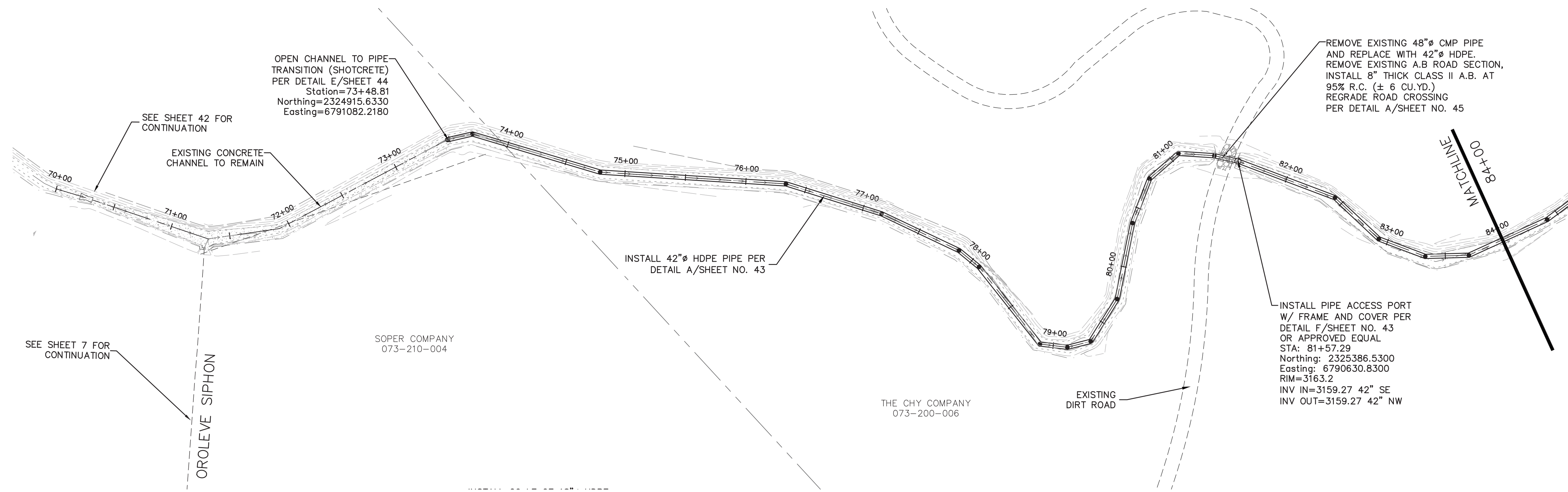
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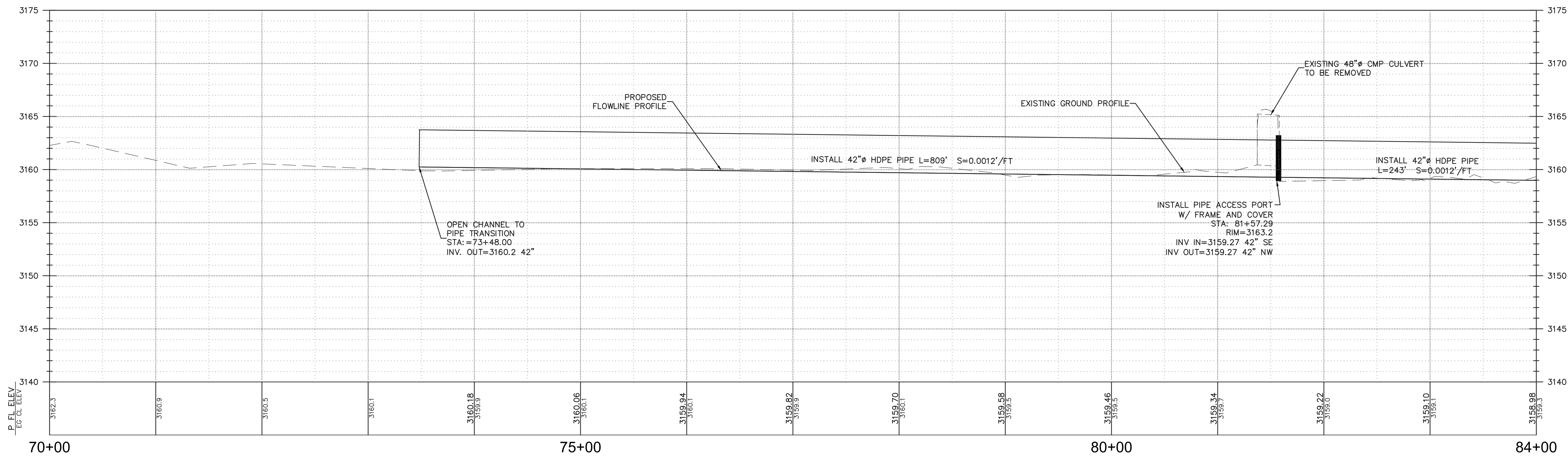
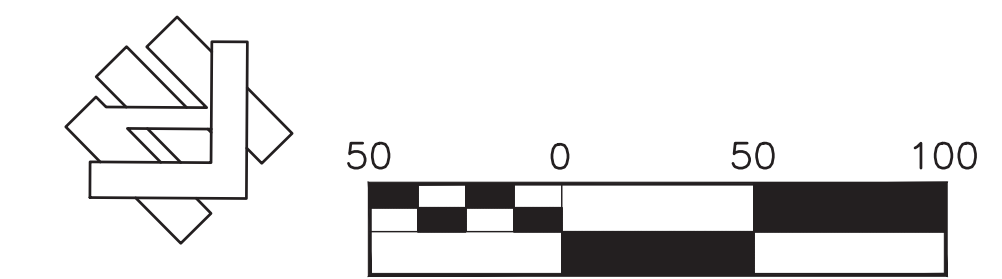
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FORBESTOWN DITCH PROJECT
PLAN AND PROFILE - STA. 49+00 TO STA. 60+82

| | | | |
|---------------------------|----------------------|--|---------------|
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 7 Of 45 |
|---------------------------|----------------------|--|---------------|



NOTE: LOCATIONS OF EXISTING ROADS ARE APPROXIMATE AND SHALL BE USED FOR REFERENCE ONLY.

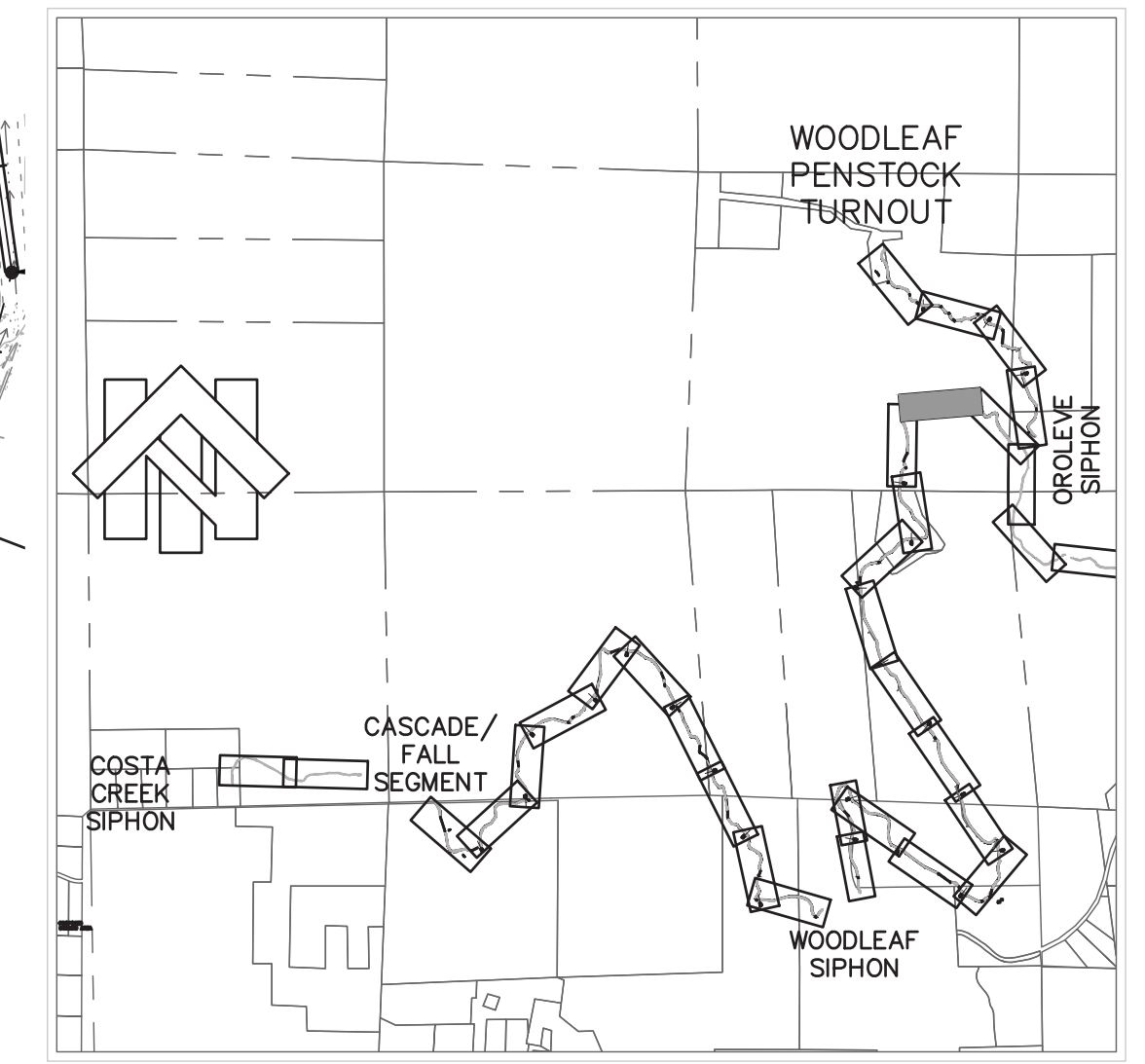
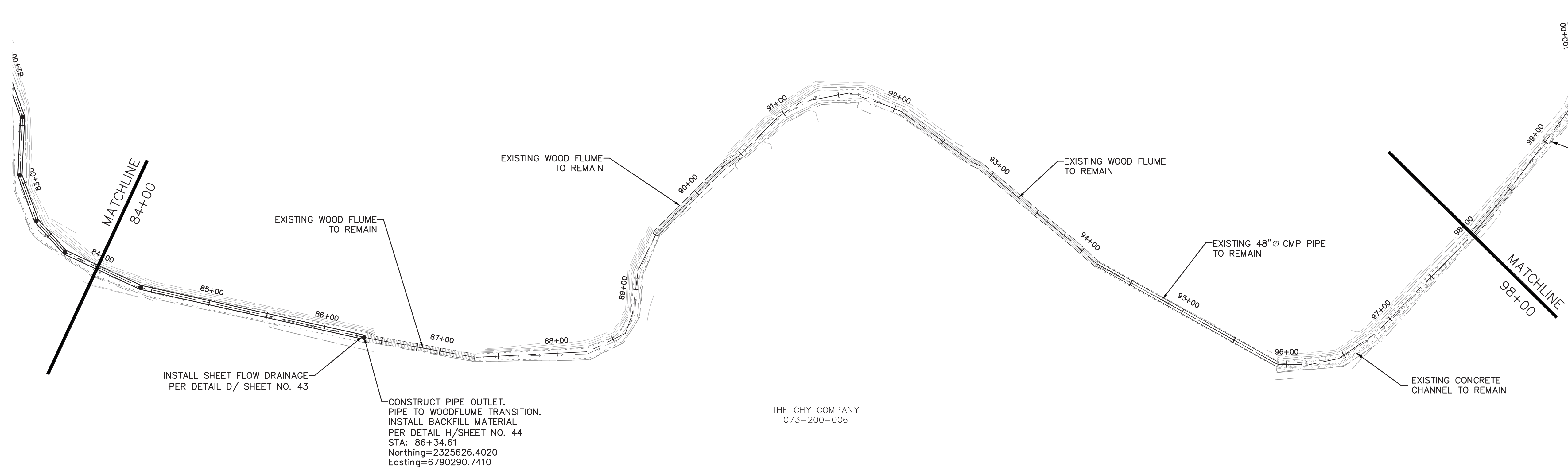


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



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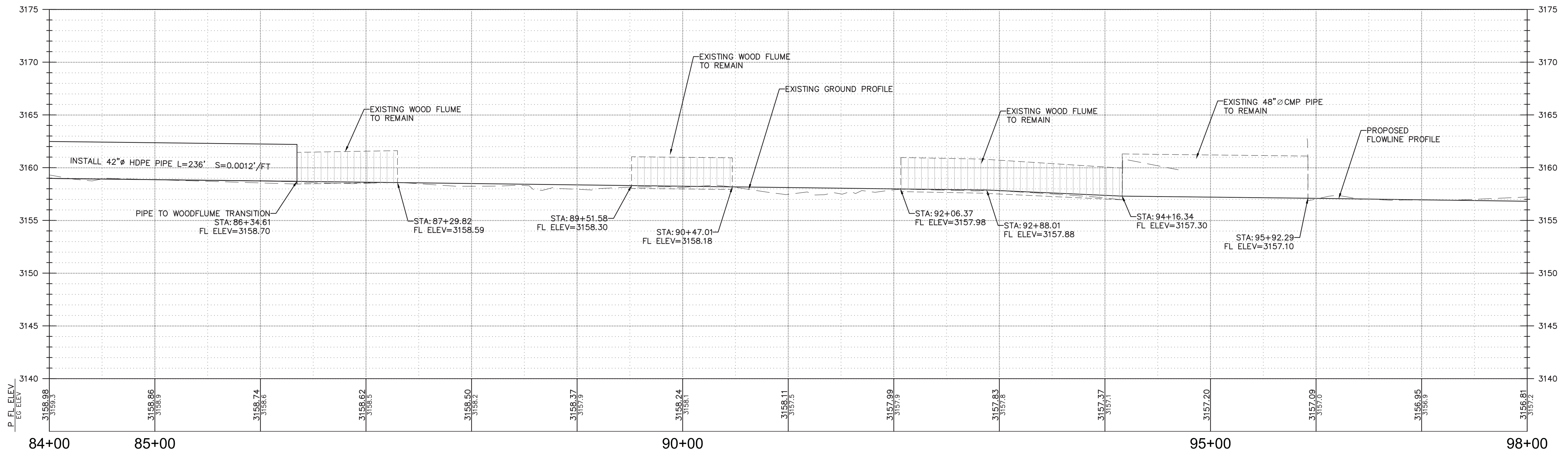
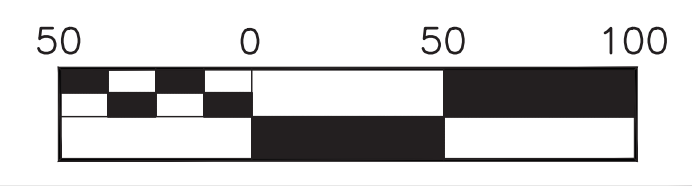
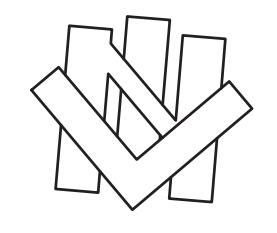
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 70+00 TO STA. 84+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 8 Of 45 |



THE CHY COMPANY
073-200-006

CONSTRUCT PIPE OUTLET.
PIPE TO WOODFLUME TRANSITION.
INSTALL BACKFILL MATERIAL
PER DETAIL H/SHEET NO. 44
STA: 86+34.61
Northing=2325626.4020
Easting=6790290.7410

INSTALL SHEET FLOW DRAINAGE
PER DETAIL D/ SHEET NO. 43



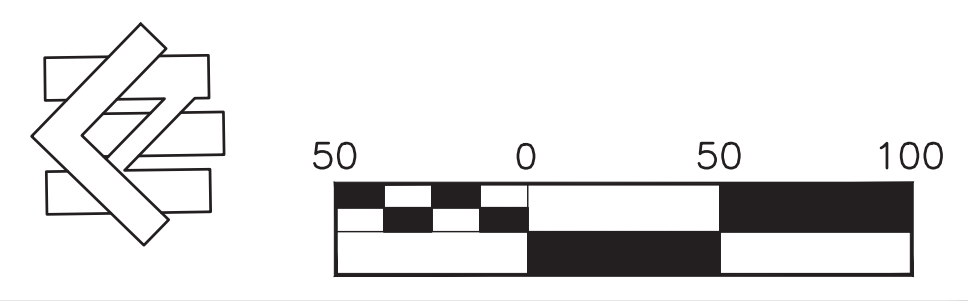
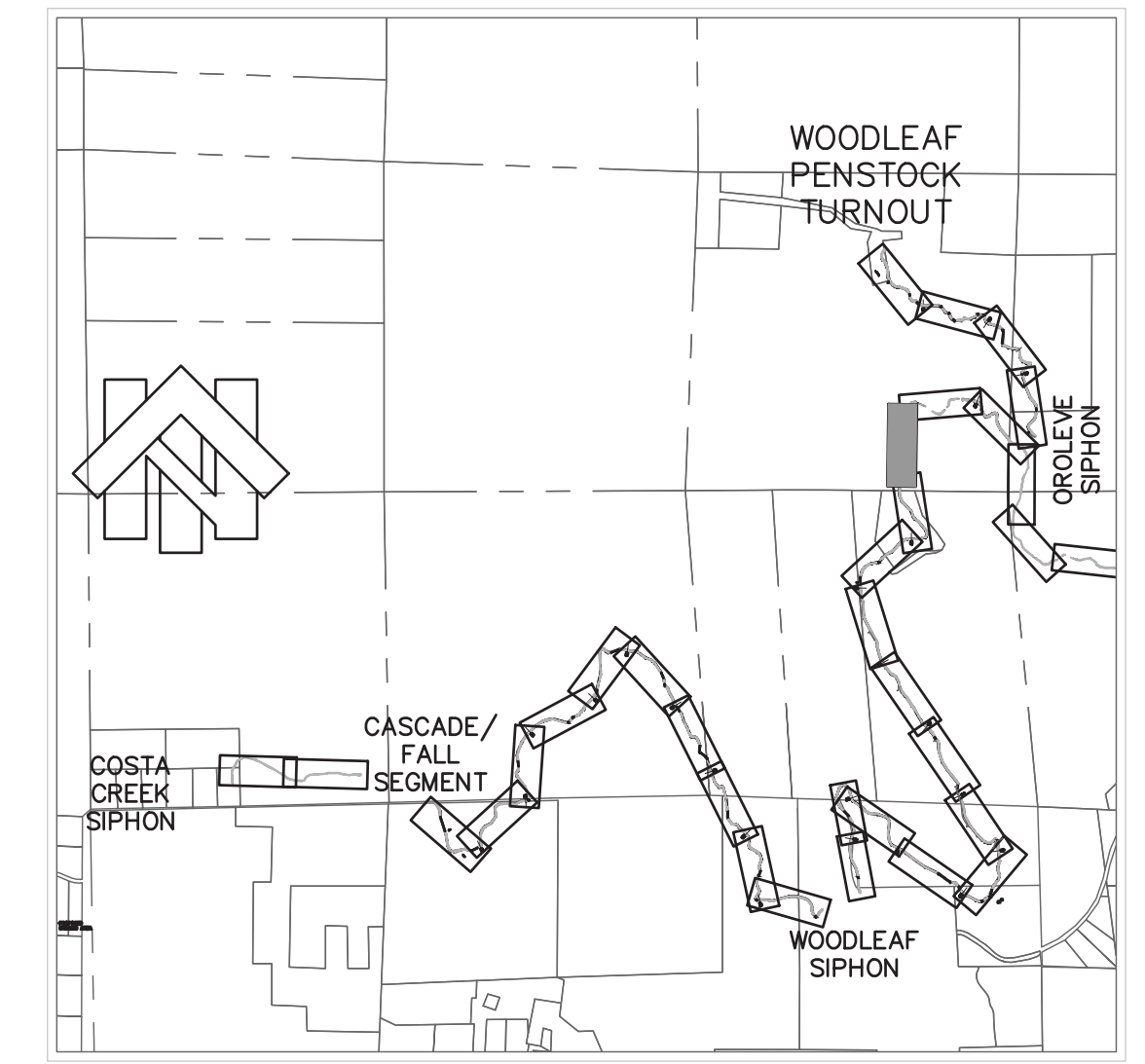
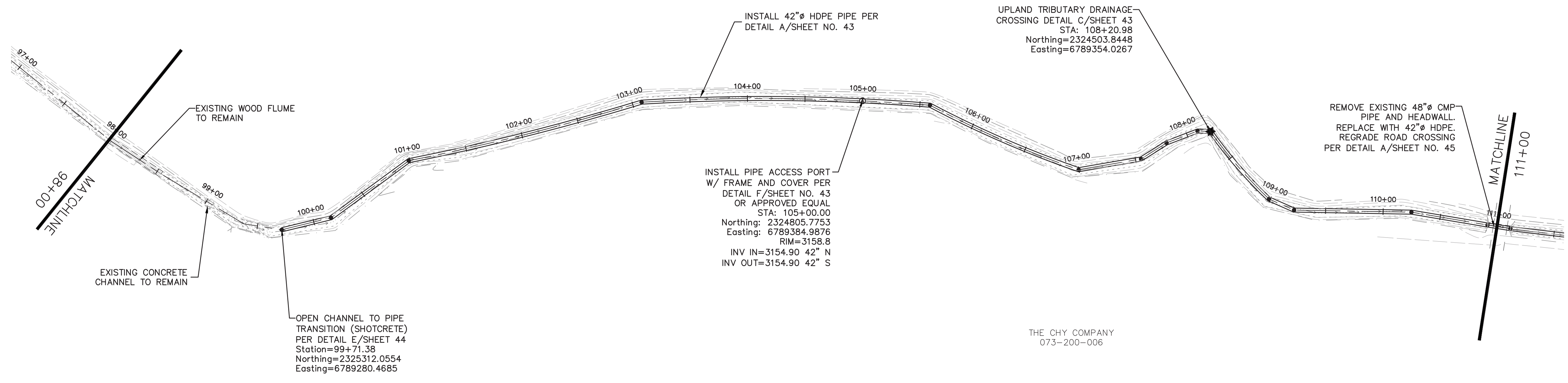
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| Designed: | RDG | Revision | Date | By |
| Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| Approved: | | | | |
| Date: | AUGUST 2019 | | | |

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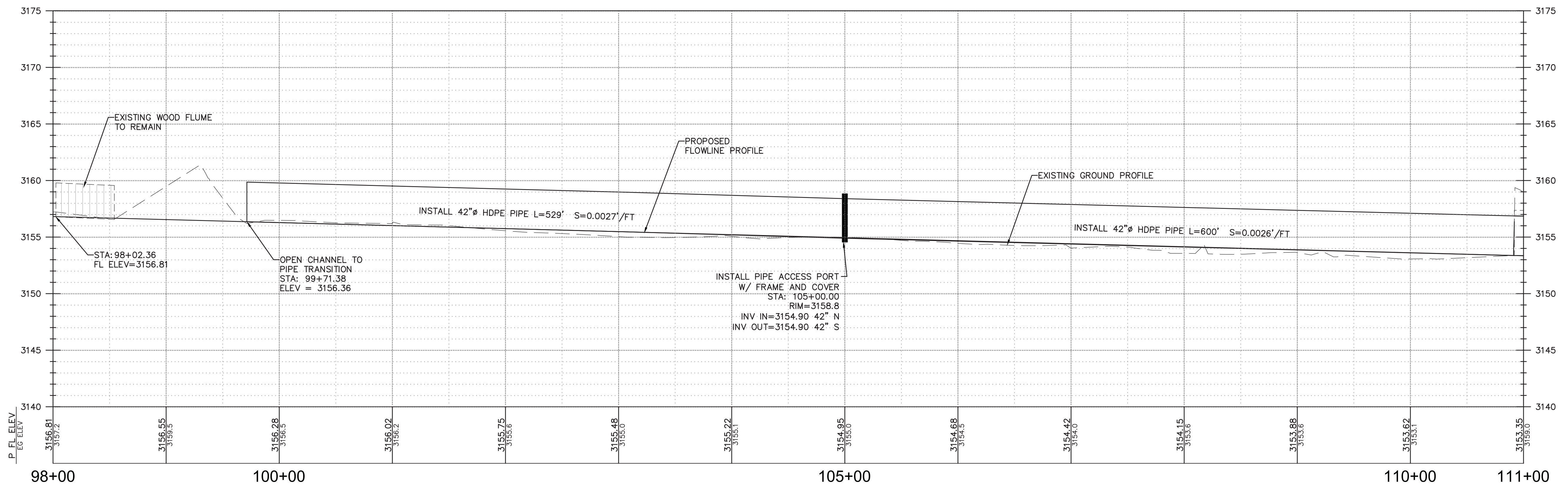
NORTH YUBA WATER DISTRICT
8691 LA PORTE ROAD
BROWNSVILLE, CA 95919

FORBESTOWN DITCH PROJECT
PLAN AND PROFILE - STA. 84+00 TO STA. 98+00

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|---------------------------|----------------------|--|---------------|
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 9 Of 45 |
|---------------------------|----------------------|--|---------------|



THE CHY COMPANY
073-200-006

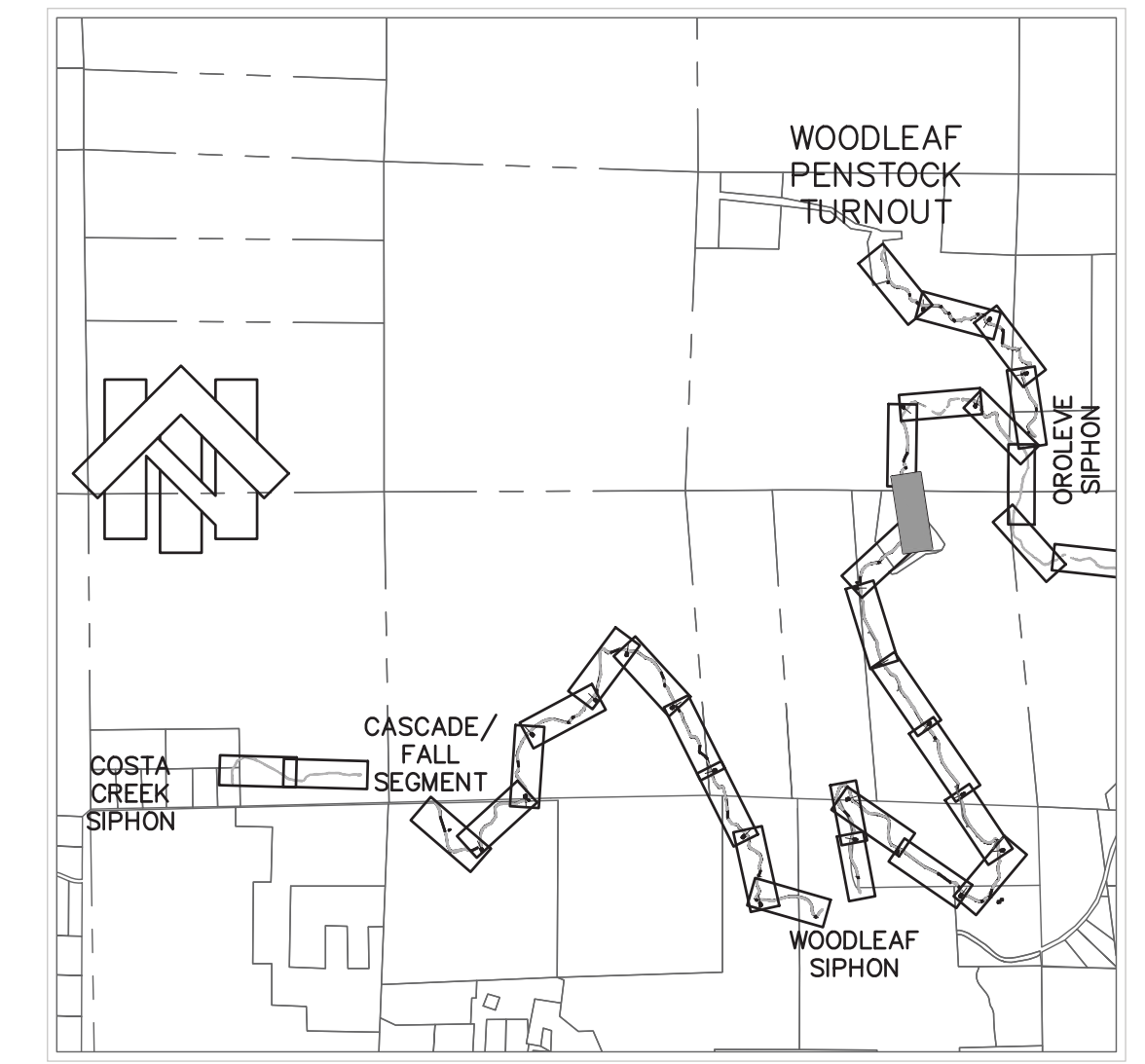
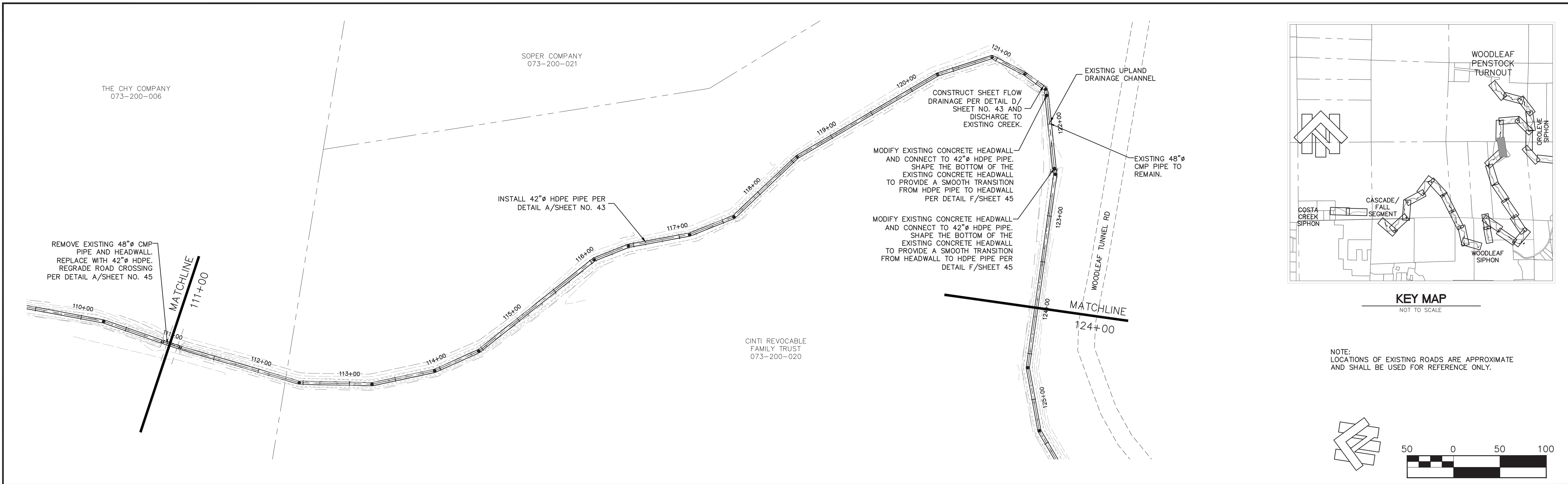


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



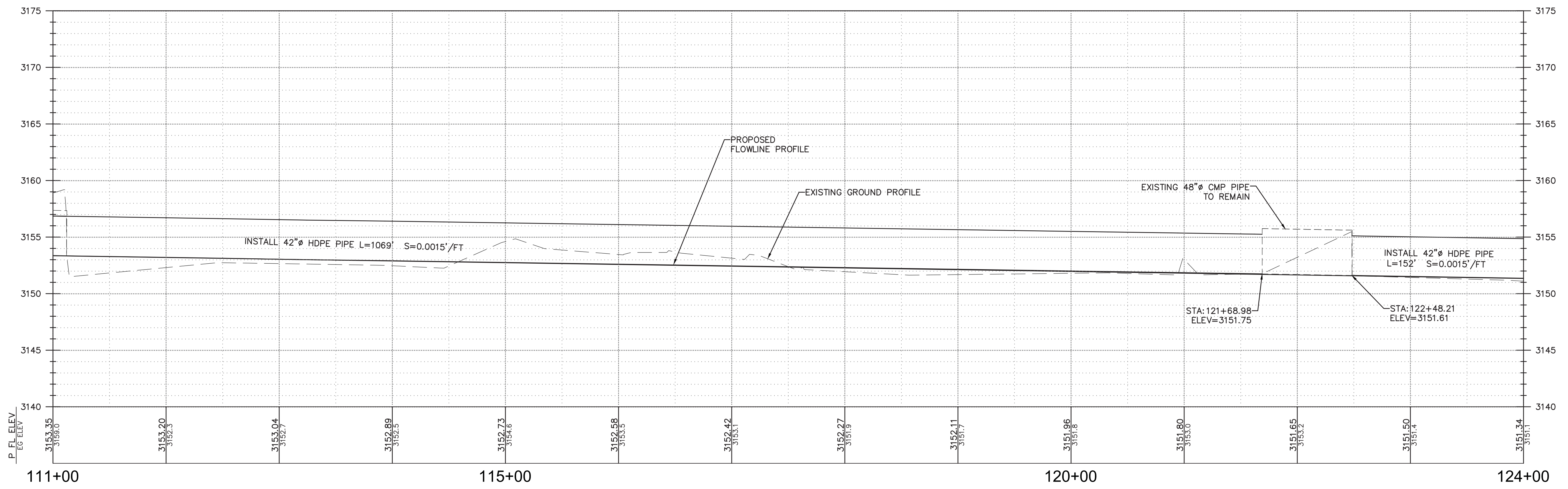
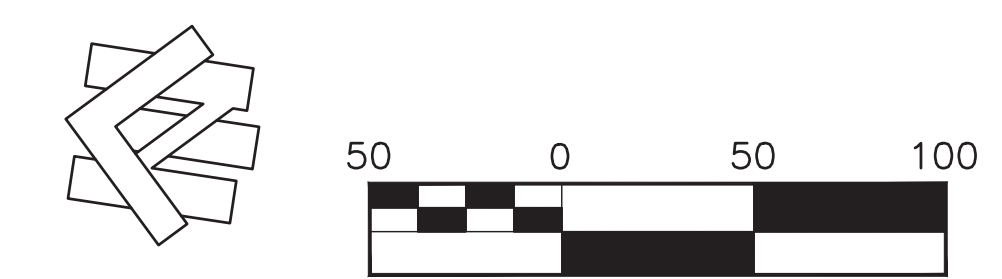
NORTH YUBA WATER DISTRICT
8691 LA PORTE ROAD
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 98+00 TO STA. 111+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 10 Of 45 |



KEY MAP
NOT TO SCALE

NOTE:
LOCATIONS OF EXISTING ROADS ARE APPROXIMATE
AND SHALL BE USED FOR REFERENCE ONLY.

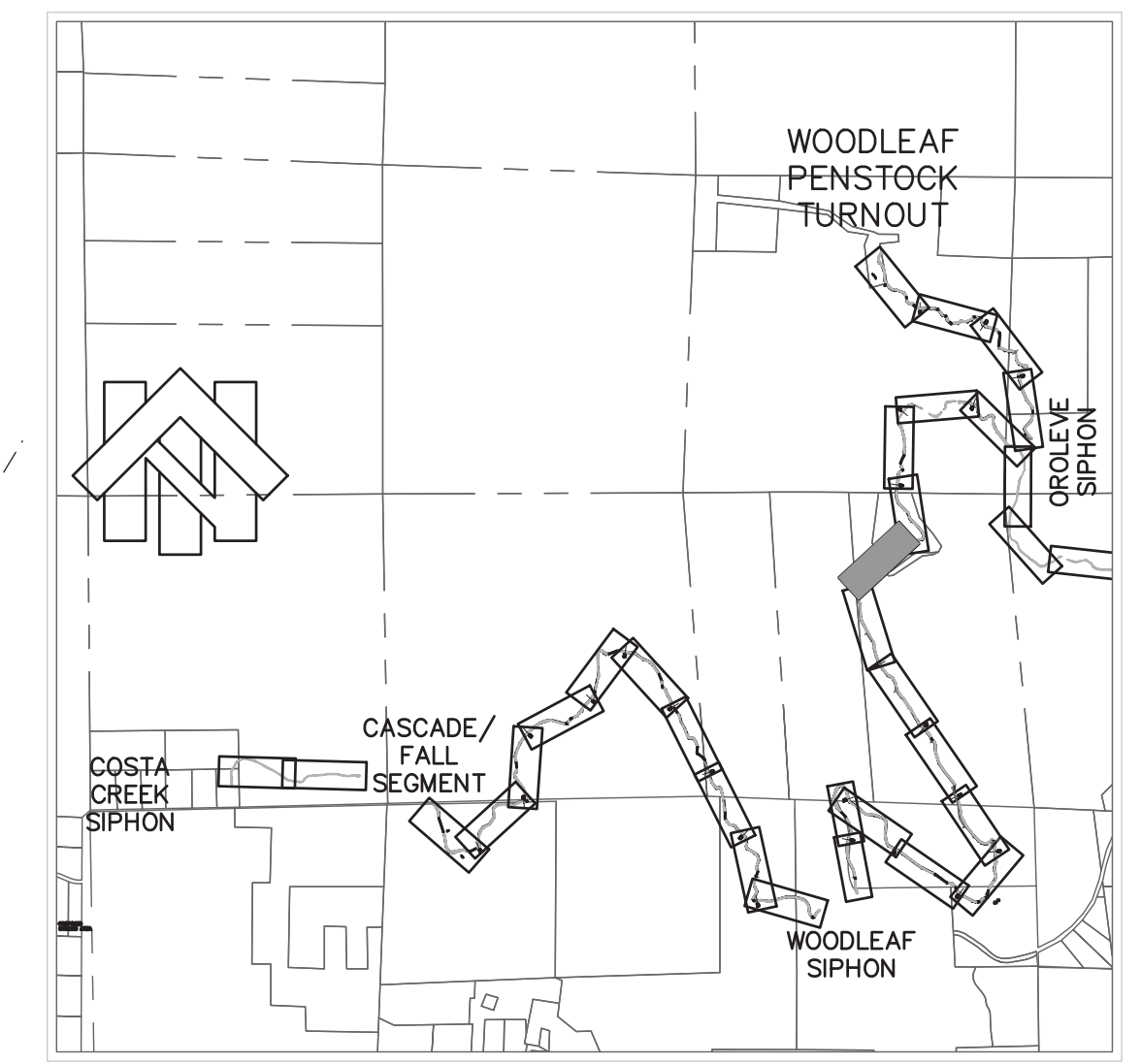
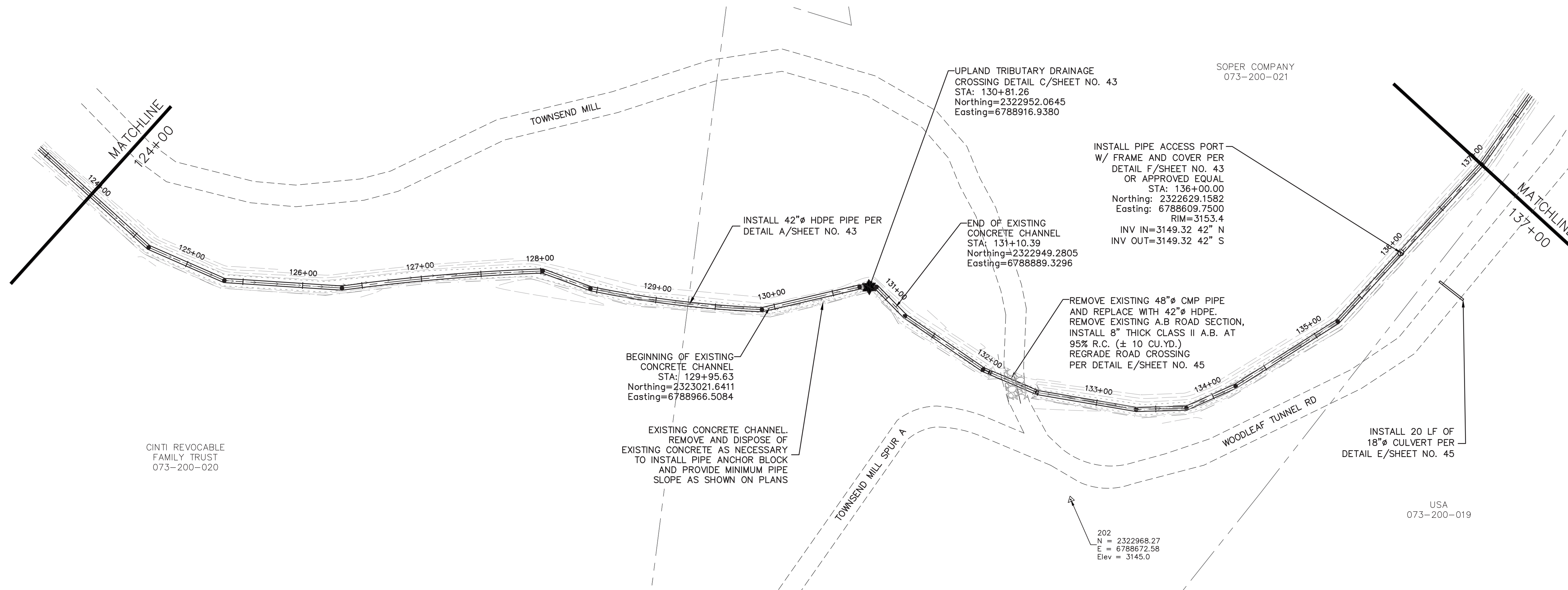


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



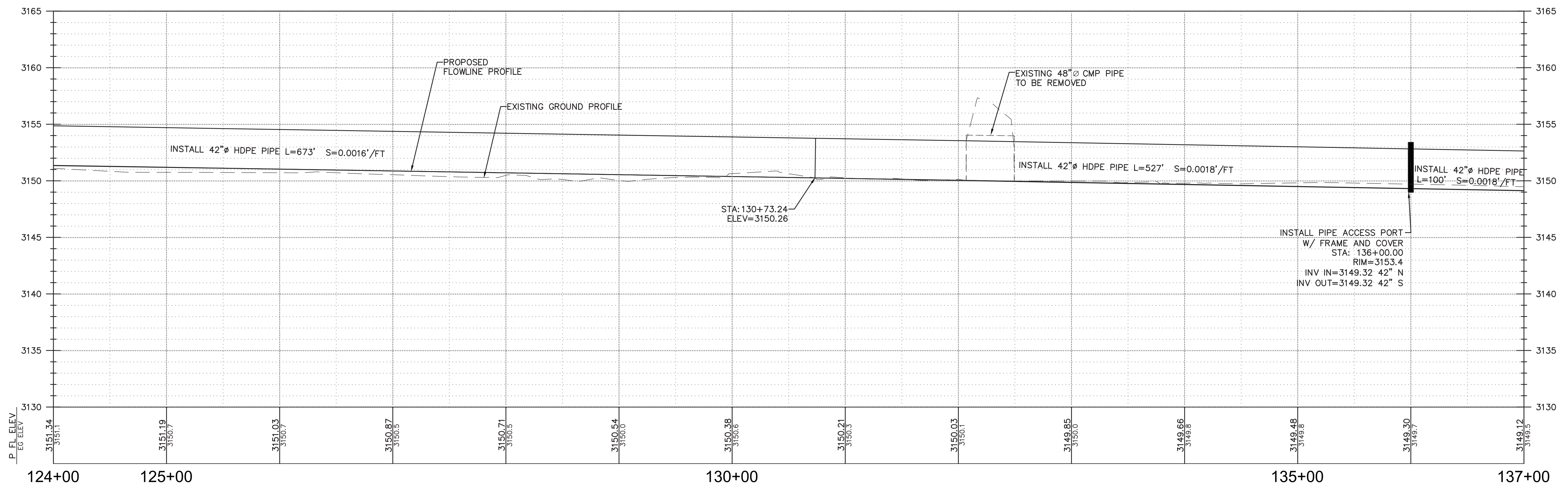
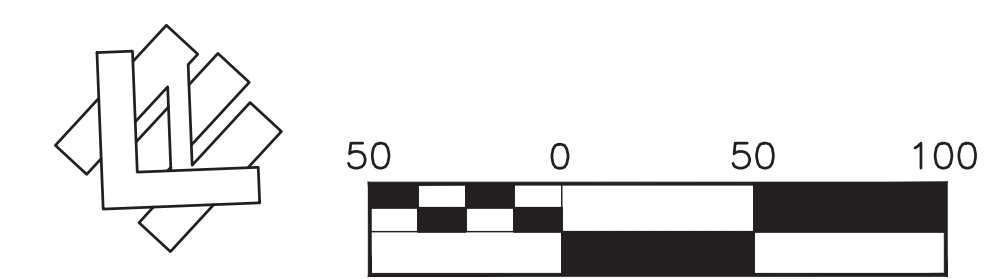
NORTH YUBA WATER DISTRICT
8691 LA PORTE ROAD
BROWNSVILLE, CA 95919

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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 111+00 TO STA. 124+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet <u>11</u> Of <u>45</u> |



KEY MAP
NOT TO SCALE

NOTE: LOCATIONS OF EXISTING ROADS ARE APPROXIMATE AND SHALL BE USED FOR REFERENCE ONLY. EXACT LOCATION OF PROPOSED ROAD CULVERT SHALL BE DETERMINED DURING CONSTRUCTION.



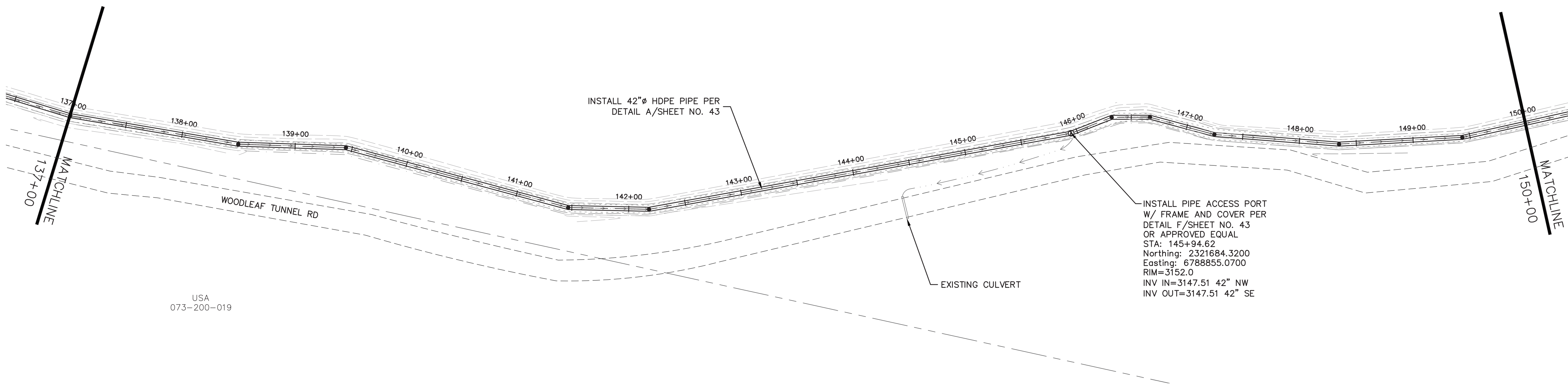
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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



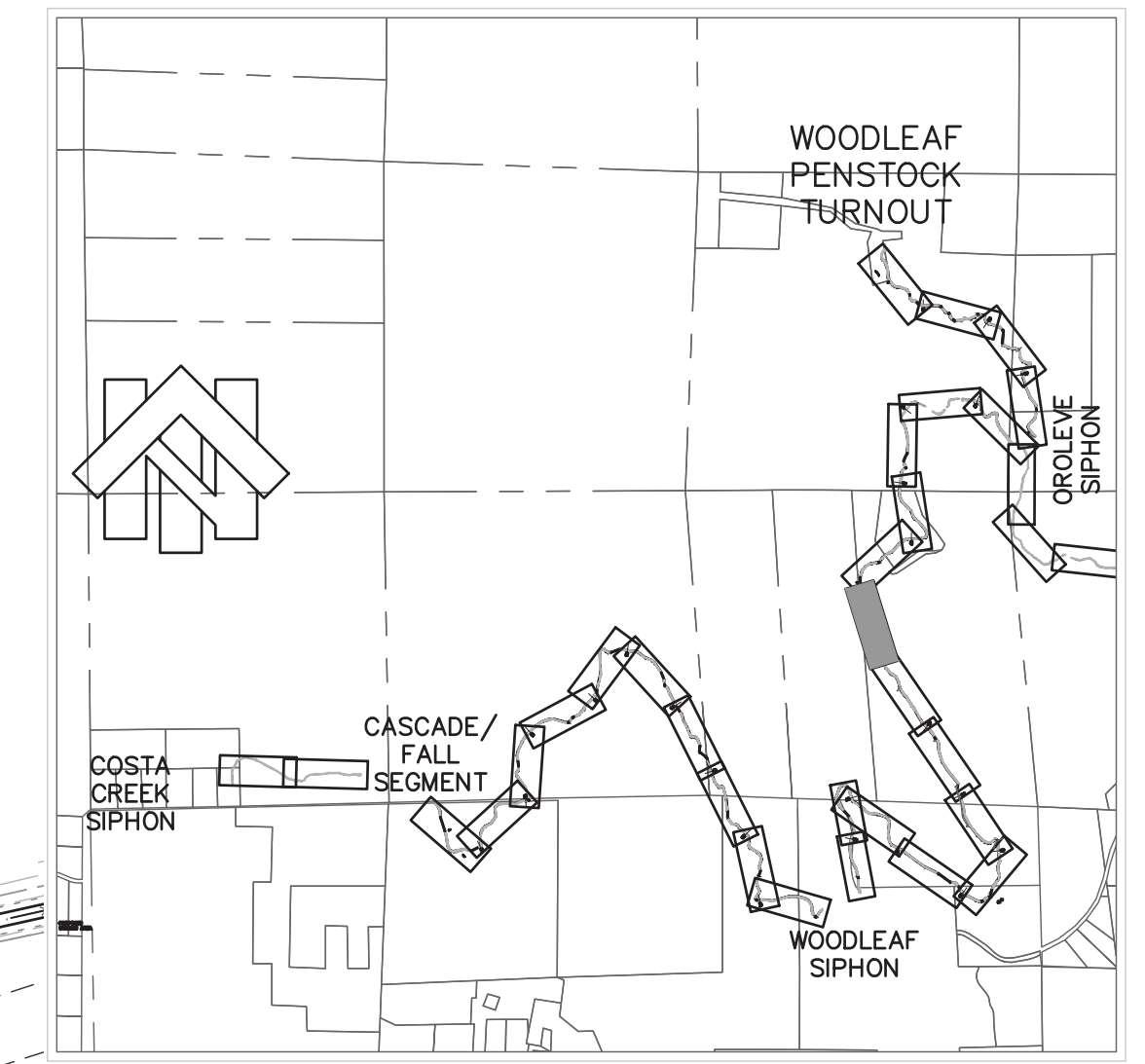
NORTH YUBA WATER DISTRICT
8691 LA PORTE ROAD
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA.124+00 TO STA. 137+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 12 Of 45 |

SOPER COMPANY
073-200-021

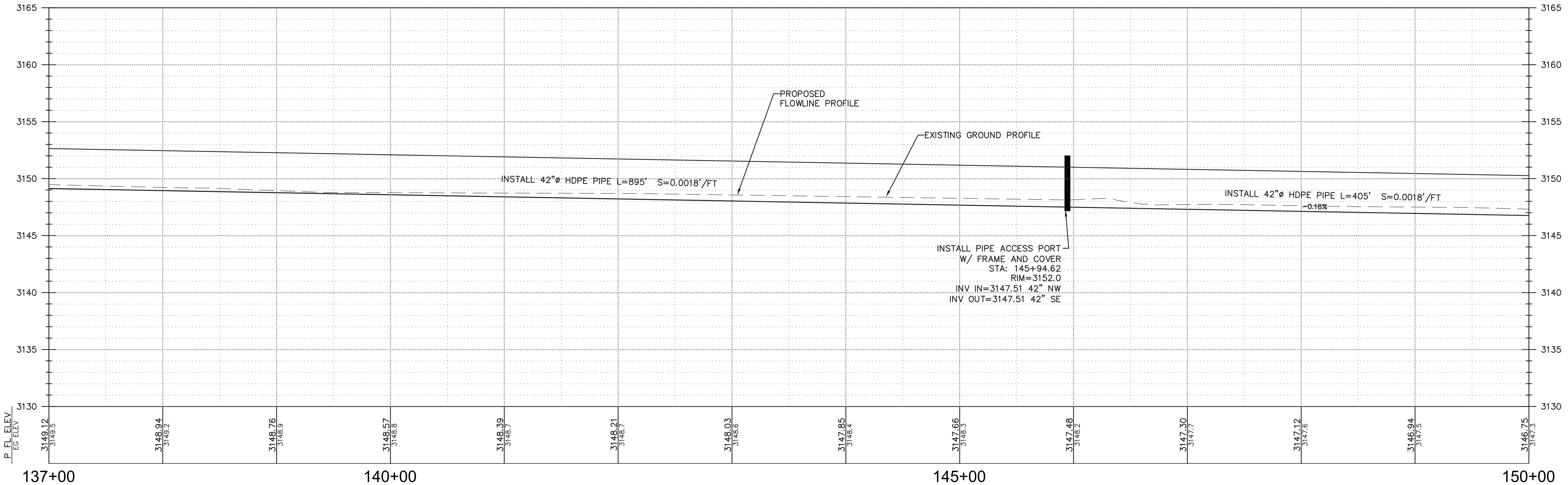
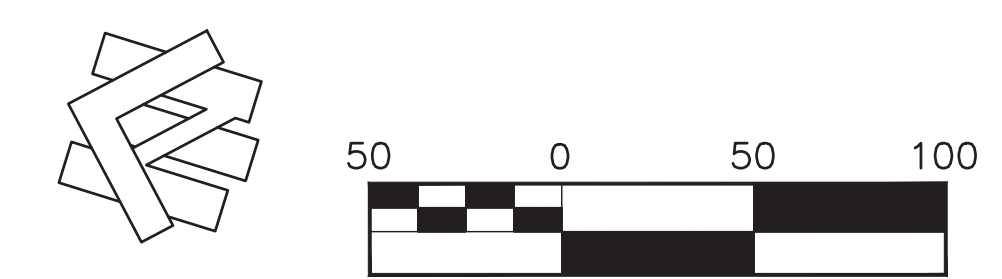


USA
073-200-019



KEY MAP
NOT TO SCALE

NOTE:
LOCATIONS OF EXISTING ROADS AND CULVERTS ARE APPROXIMATE AND SHALL BE USED FOR REFERENCE ONLY. EXACT LOCATION OF ROAD CULVERT SHALL BE DETERMINED DURING CONSTRUCTION.



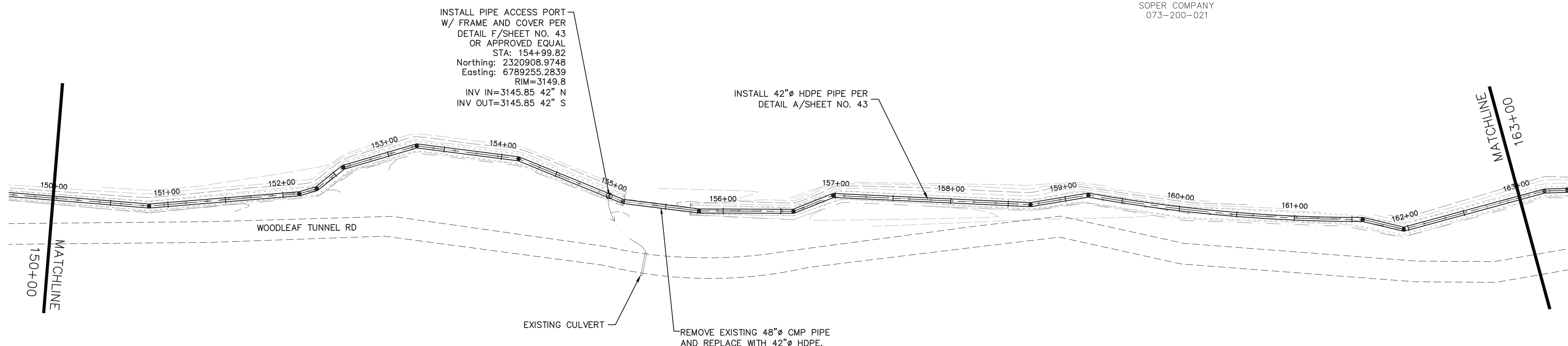
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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |

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FORBESTOWN DITCH PROJECT
PLAN AND PROFILE - STA. 137+00 TO STA. 150+00

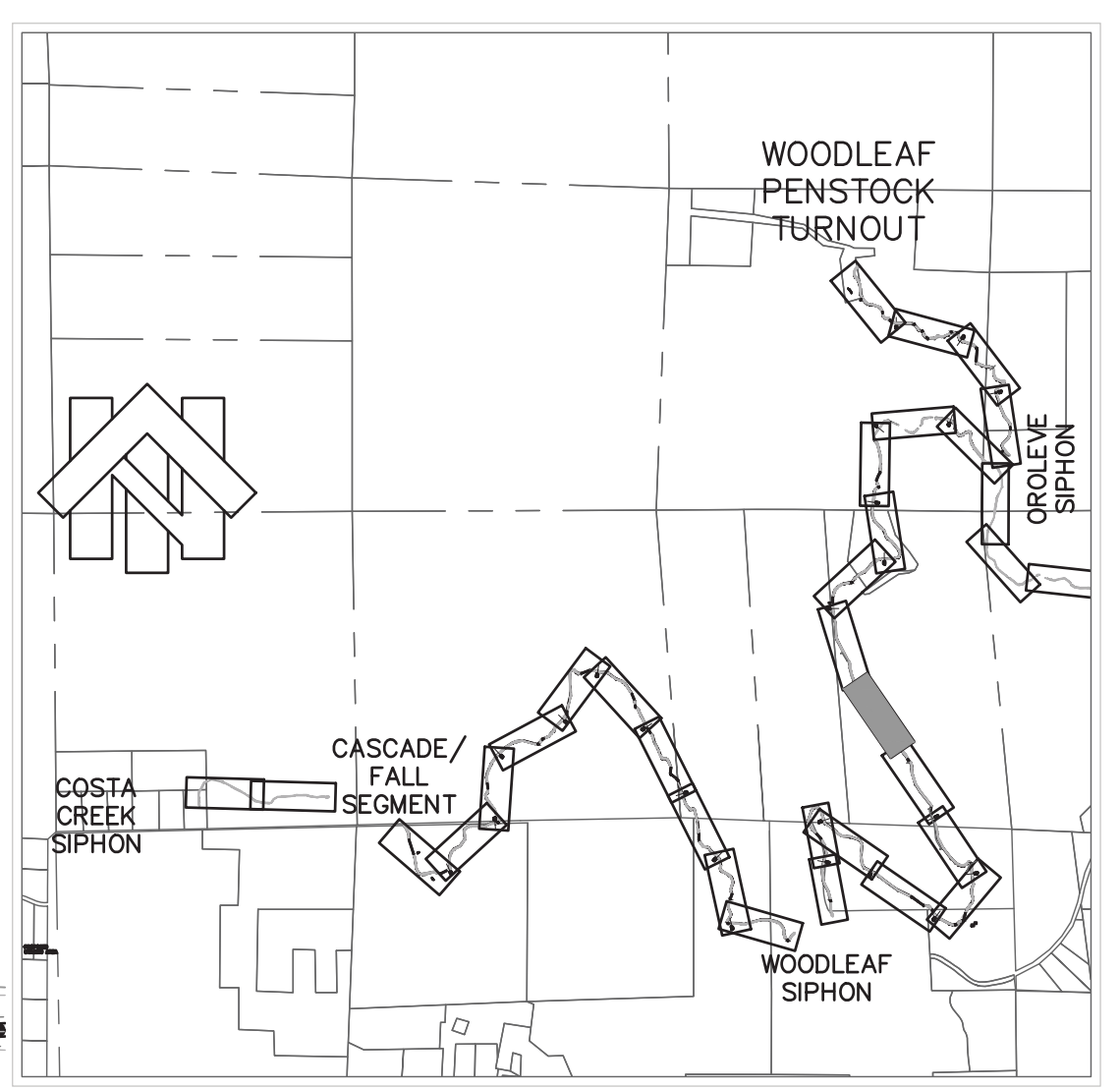
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| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 13 Of 45 |
|---------------------------|----------------------|--|----------------|



INSTALL PIPE ACCESS PORT
W/ FRAME AND COVER PER
DETAIL F/SHEET NO. 43
OR APPROVED EQUAL
STA: 154+99.82
Northing: 2320908.9748
Easting: 6789255.2839
RIM=3149.8
INV IN=3145.85 42" N
INV OUT=3145.85 42" S

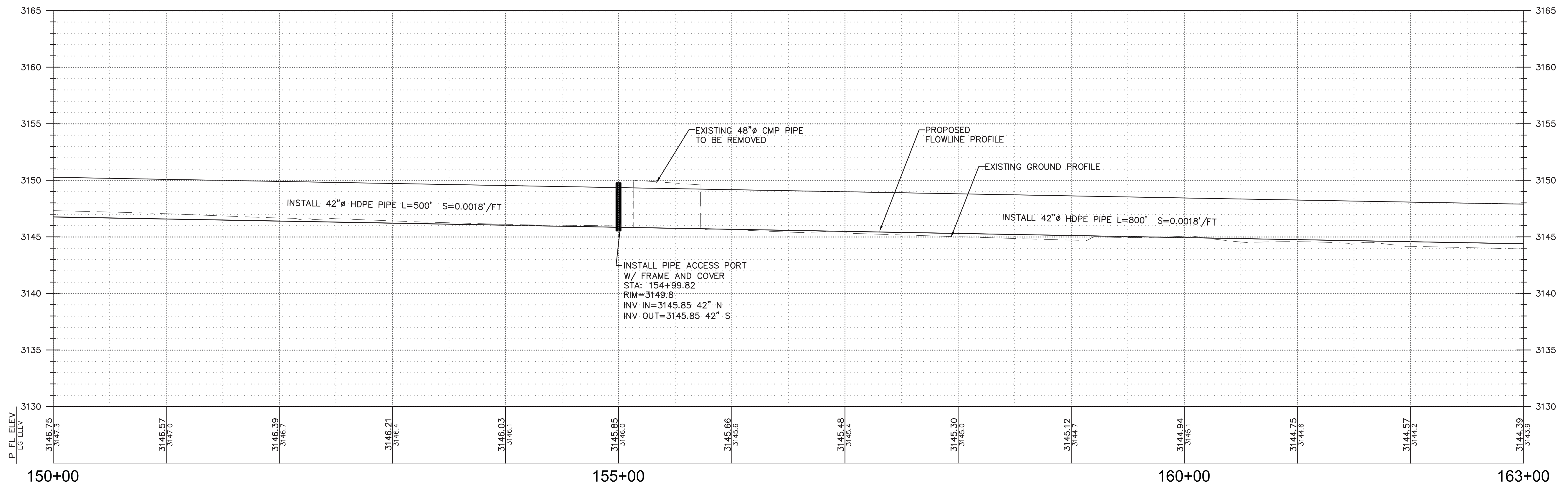
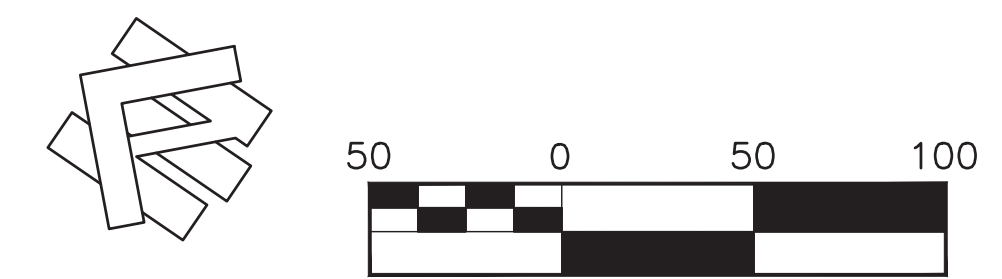
INSTALL 42" HDPE PIPE PER
DETAIL A/SHEET NO. 43

SOPER COMPANY
073-200-021



KEY MAP
NOT TO SCALE

NOTE:
LOCATIONS OF EXISTING ROADS AND CULVERTS ARE
APPROXIMATE AND SHALL BE USED FOR
REFERENCE ONLY. EXACT LOCATION OF ROAD
CULVERT SHALL BE DETERMINED DURING
CONSTRUCTION.



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| 6/3/2019 | Designed: | RDG |
| | Drawn By: | RDG |
| | Approved: | |
| | Date: | AUGUST 2019 |

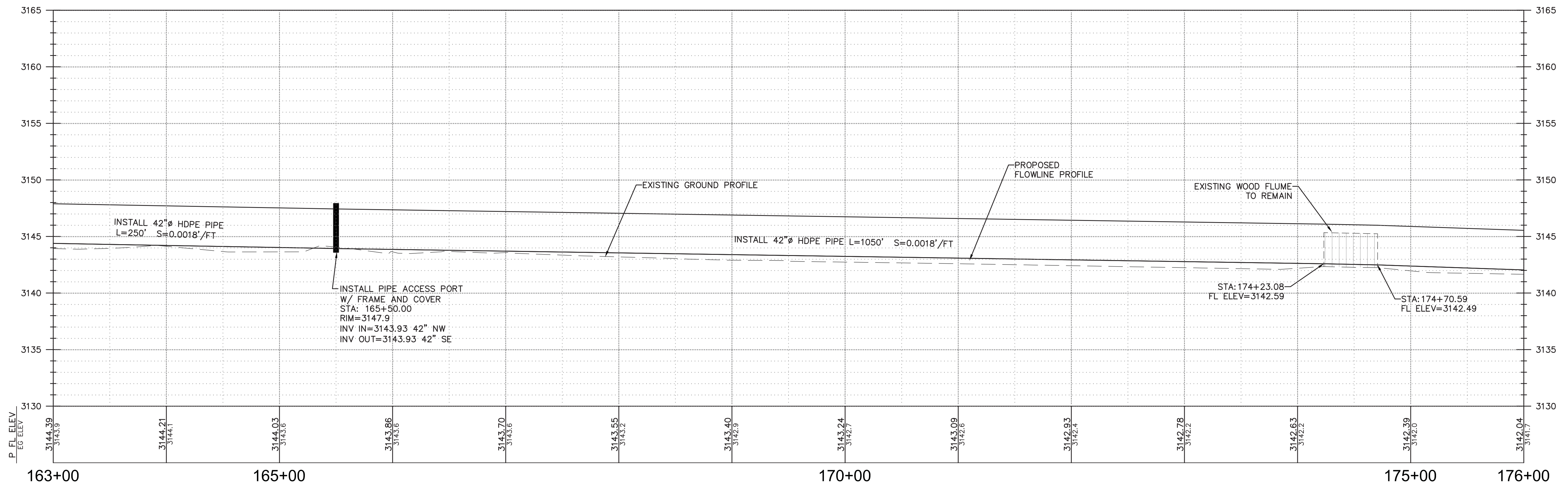
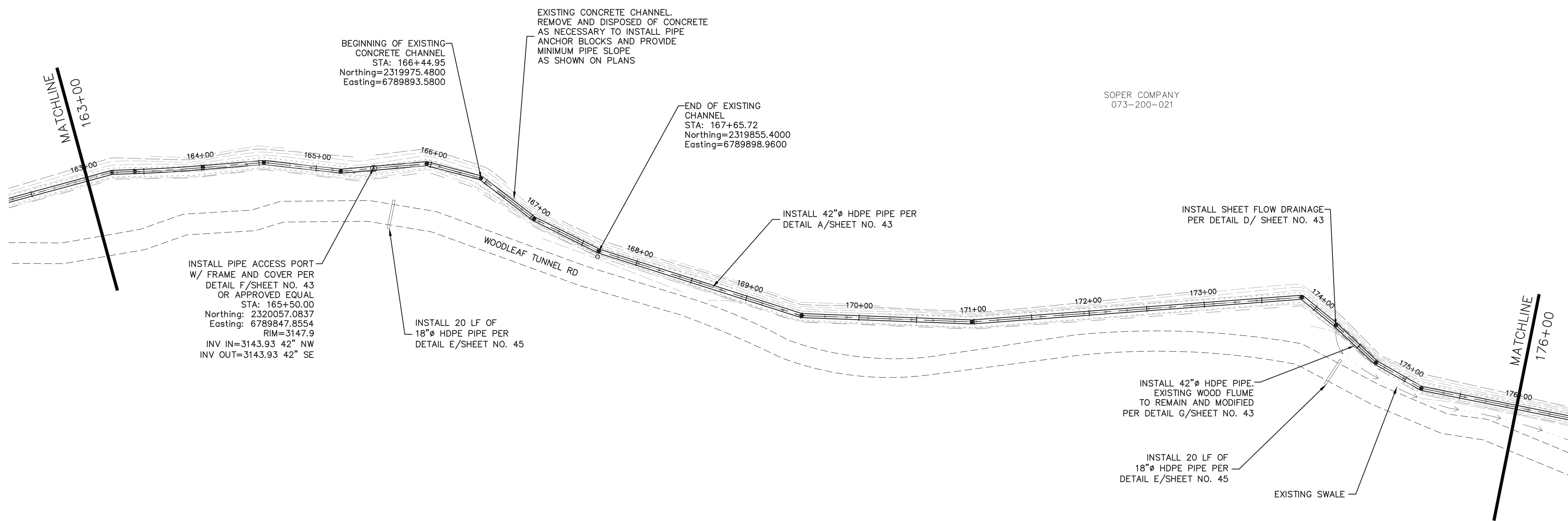
| Revision | Date | By |
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| REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |

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FORBESTOWN DITCH PROJECT
PLAN AND PROFILE - STA. 150+00 TO STA. 163+00

| | | | |
|---------------------------|----------------------|--|----------------|
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 14 Of 45 |
|---------------------------|----------------------|--|----------------|

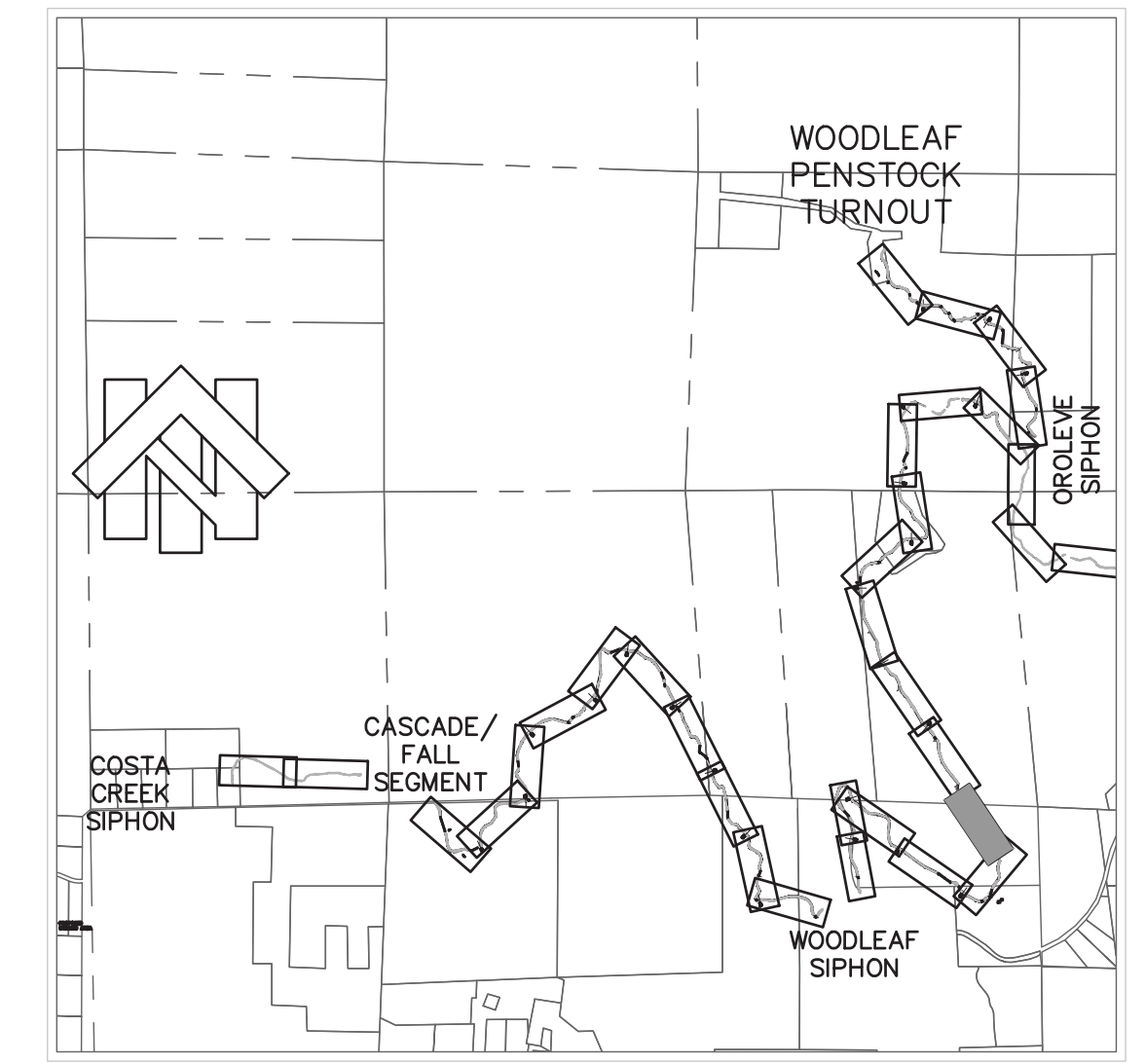
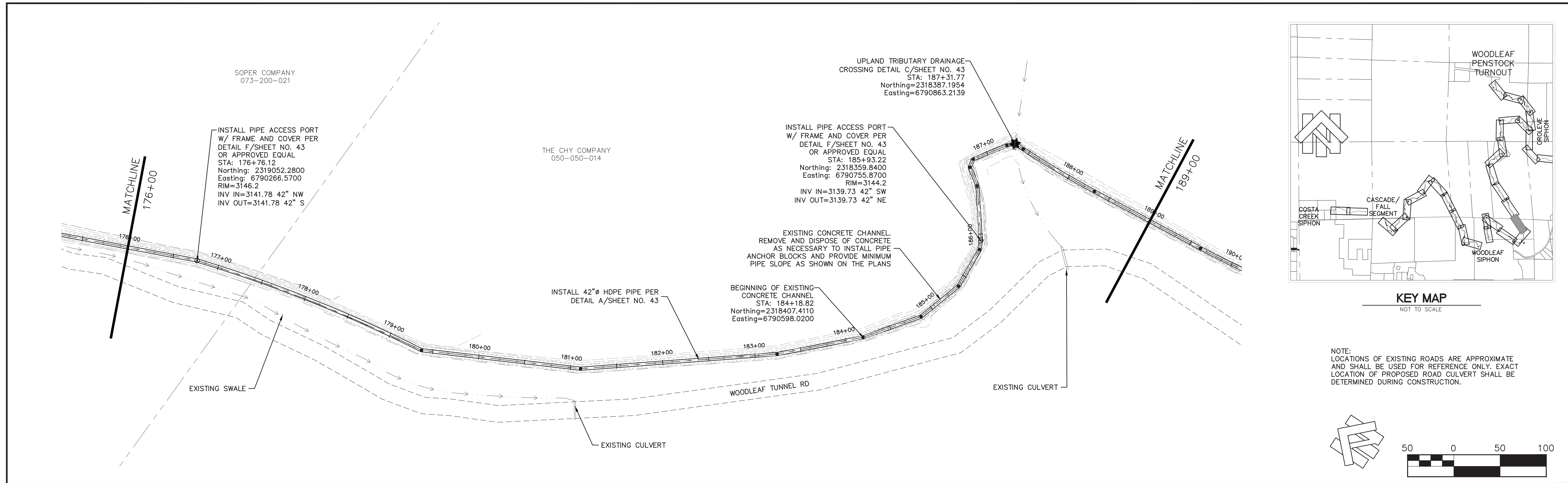


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |

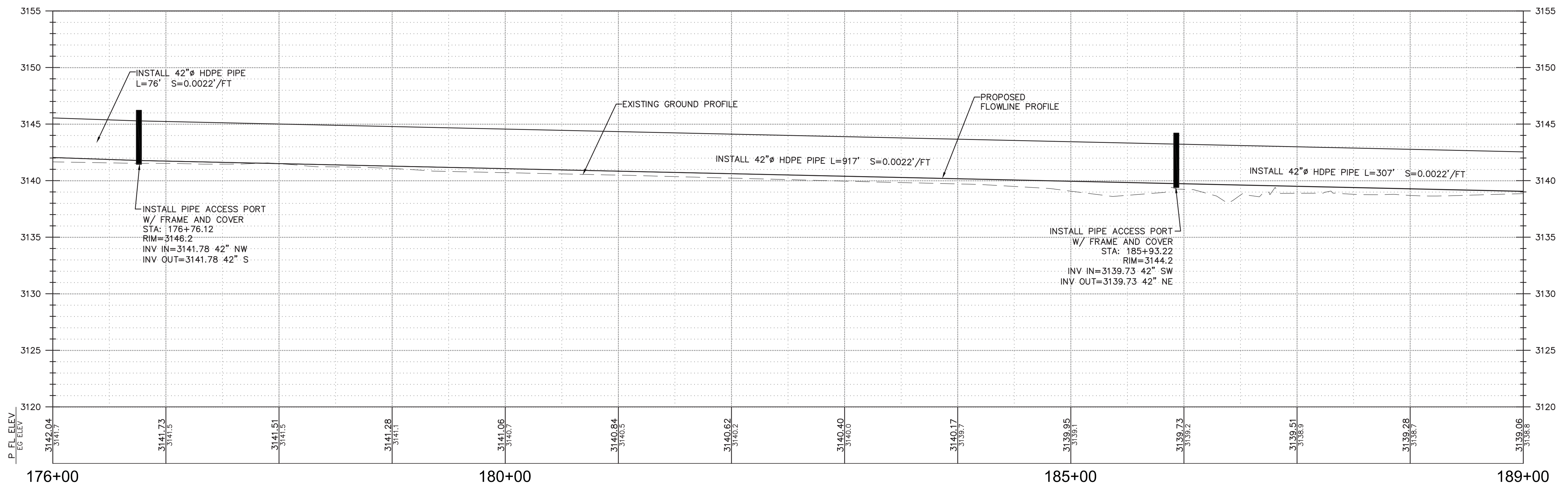
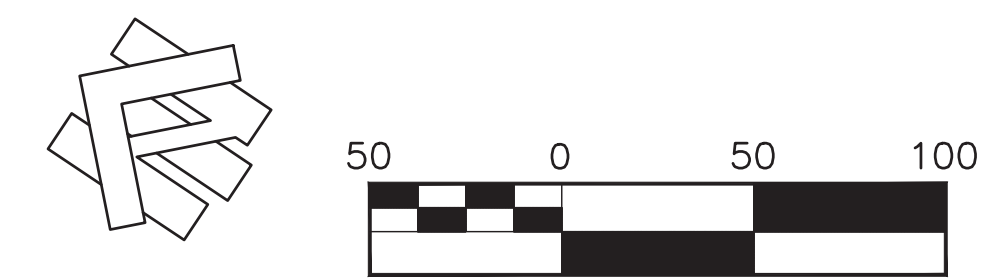


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8691 LA PORTE ROAD
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 163+00 TO STA. 176+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 15 Of 45 |



NOTE: LOCATIONS OF EXISTING ROADS ARE APPROXIMATE AND SHALL BE USED FOR REFERENCE ONLY. EXACT LOCATION OF PROPOSED ROAD CULVERT SHALL BE DETERMINED DURING CONSTRUCTION.

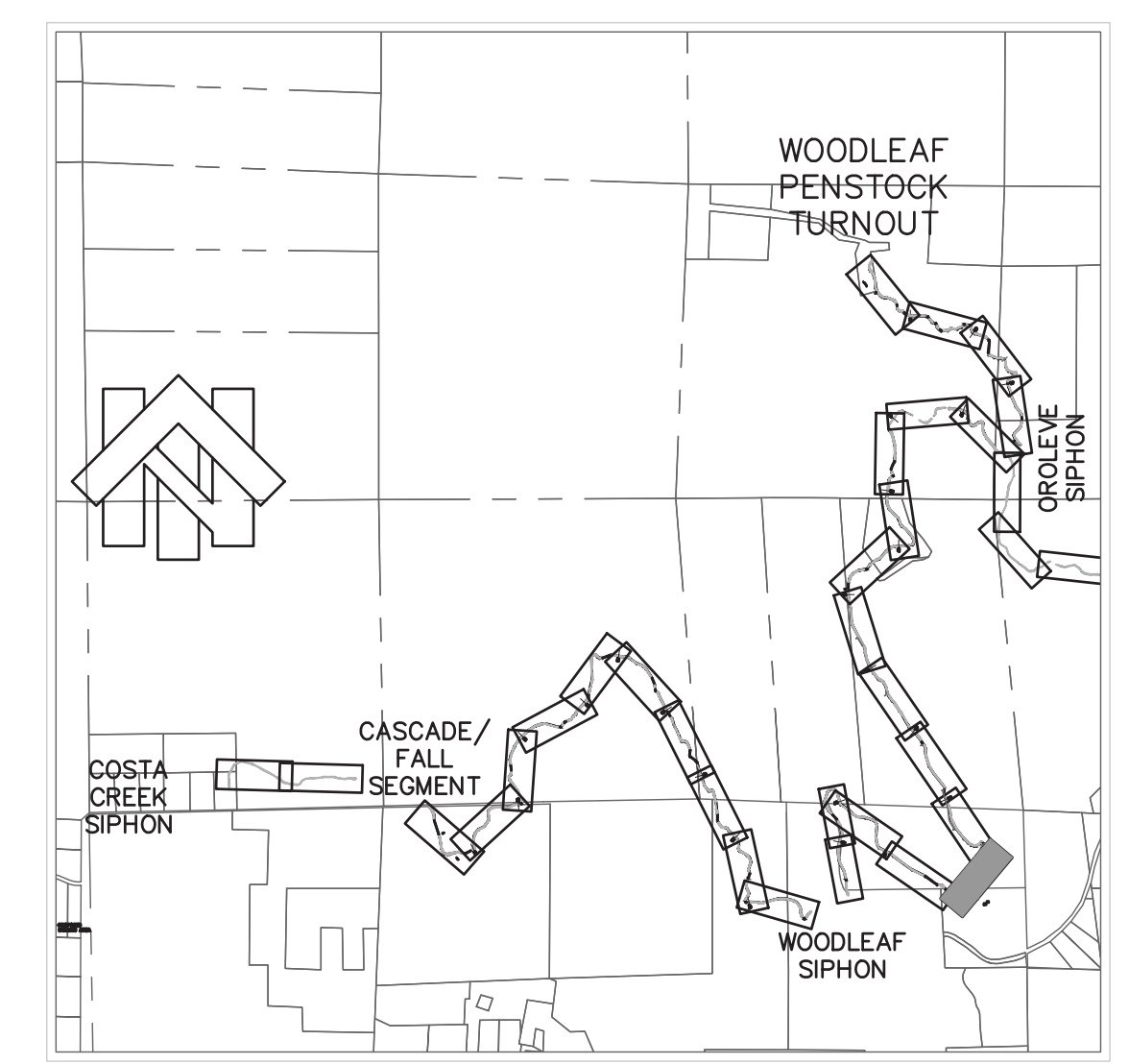
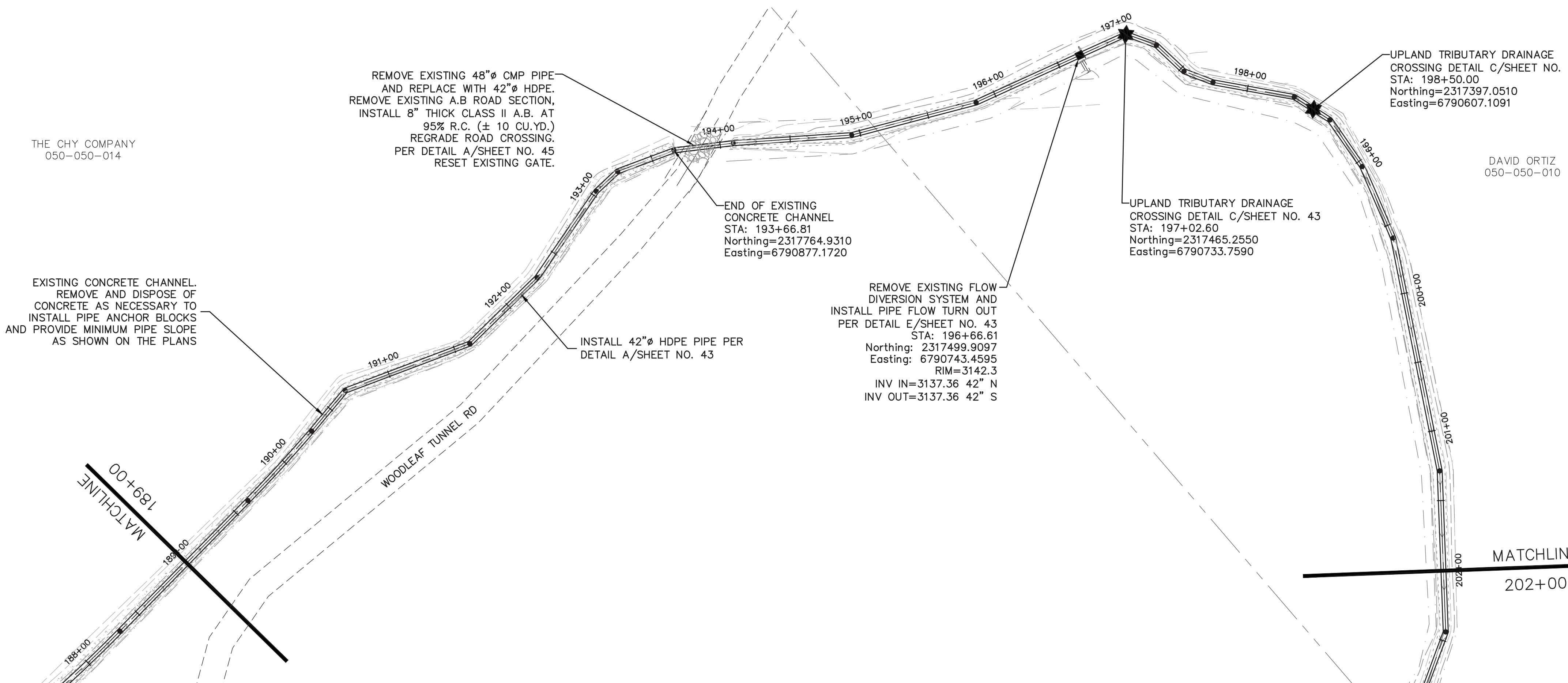


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



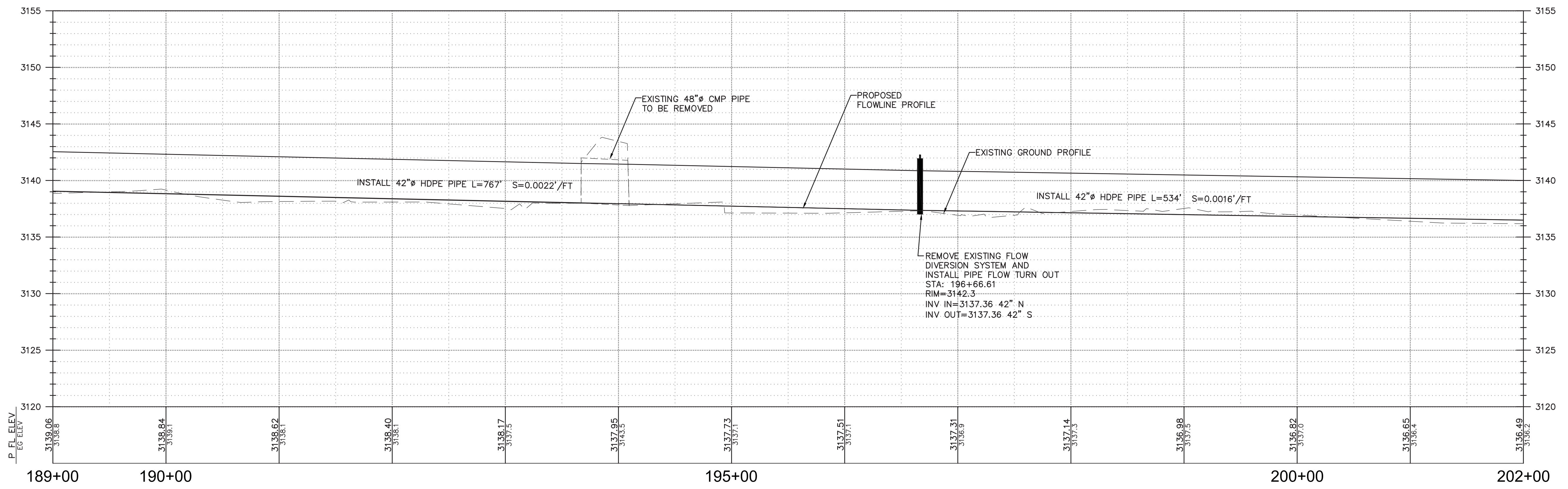
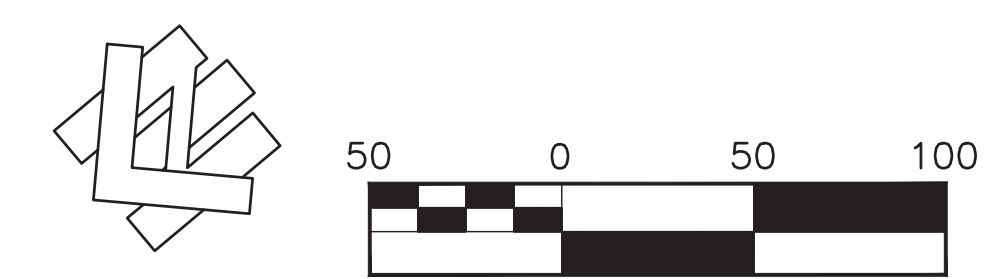
NORTH YUBA WATER DISTRICT
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 176+00 TO STA. 189+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 16 Of 45 |



KEY MAP
NOT TO SCALE

NOTE:
LOCATIONS OF EXISTING ROADS ARE APPROXIMATE
AND SHALL BE USED FOR REFERENCE ONLY.

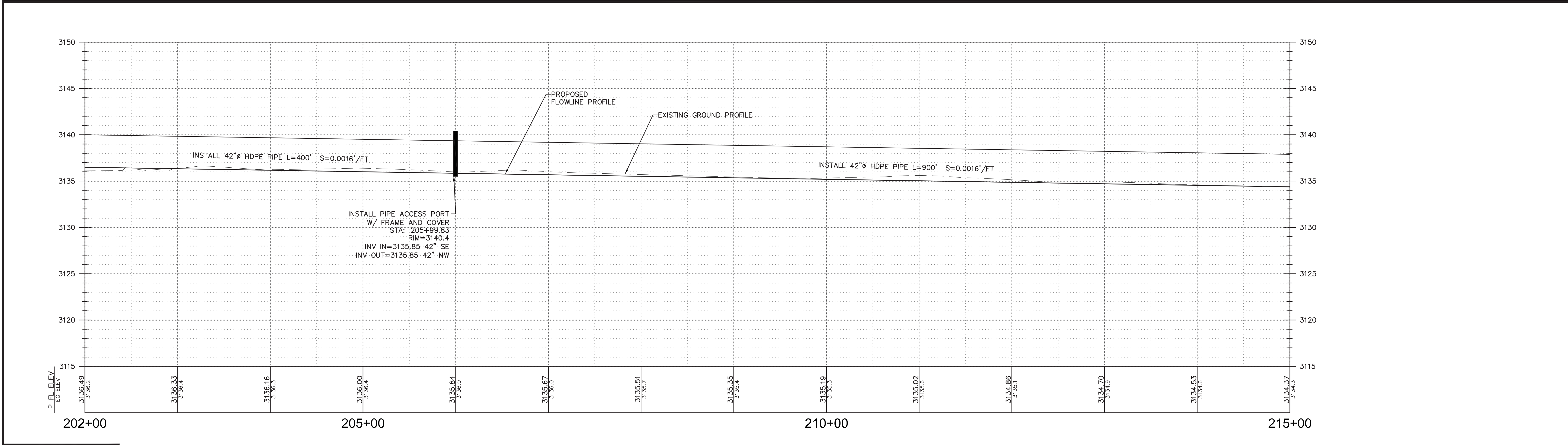
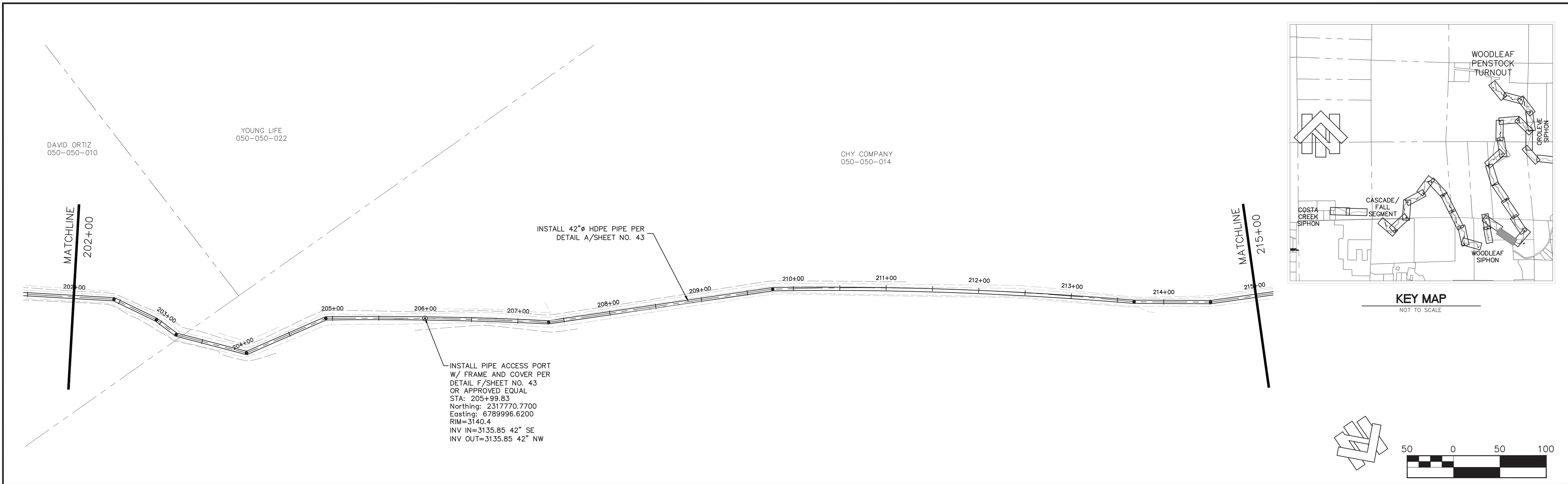


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
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| | Date: | AUGUST 2019 | | | |




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|--|----------------------|---|----------------|
| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 189+00 TO STA. 202+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 17 Of 45 |

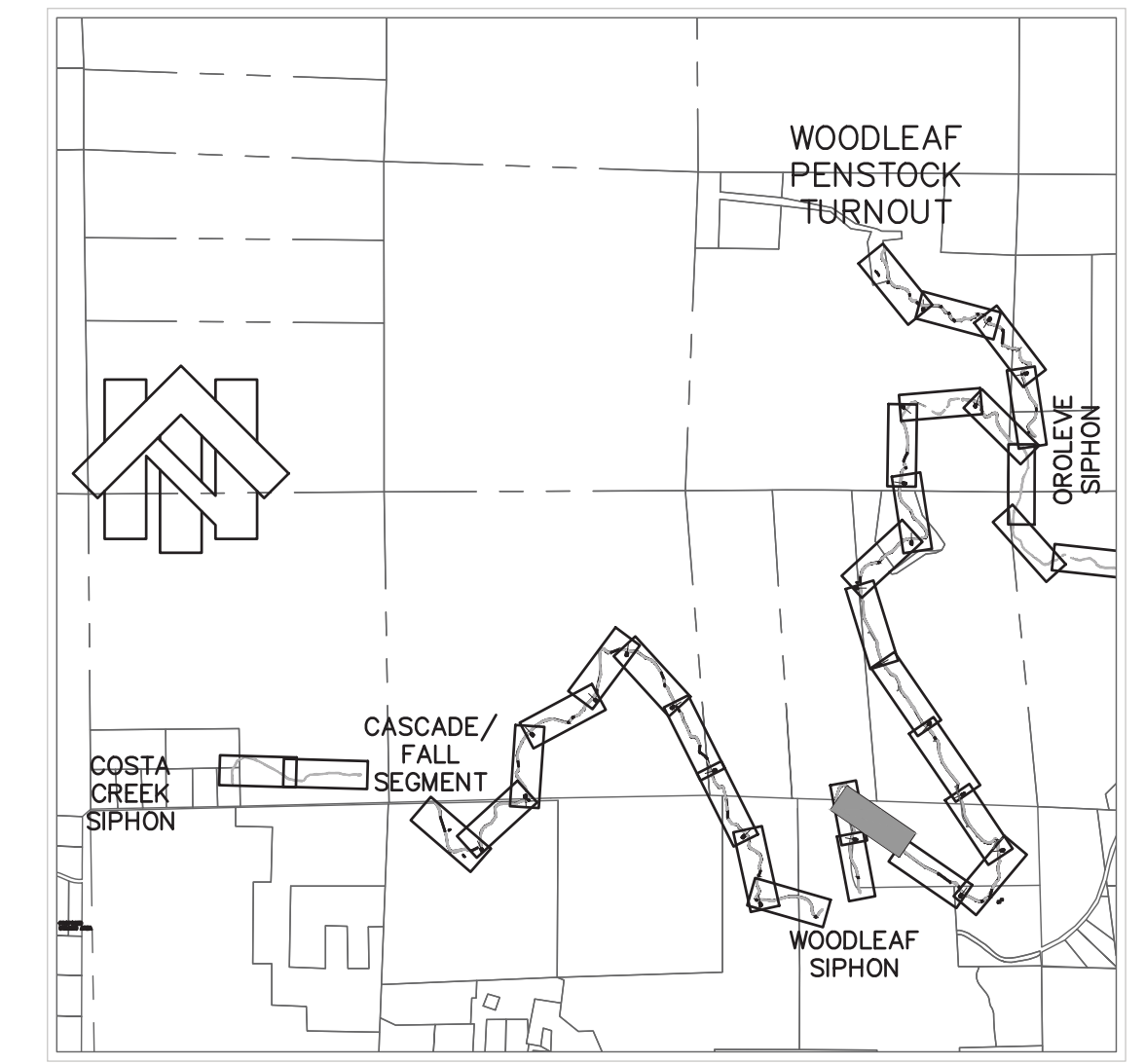
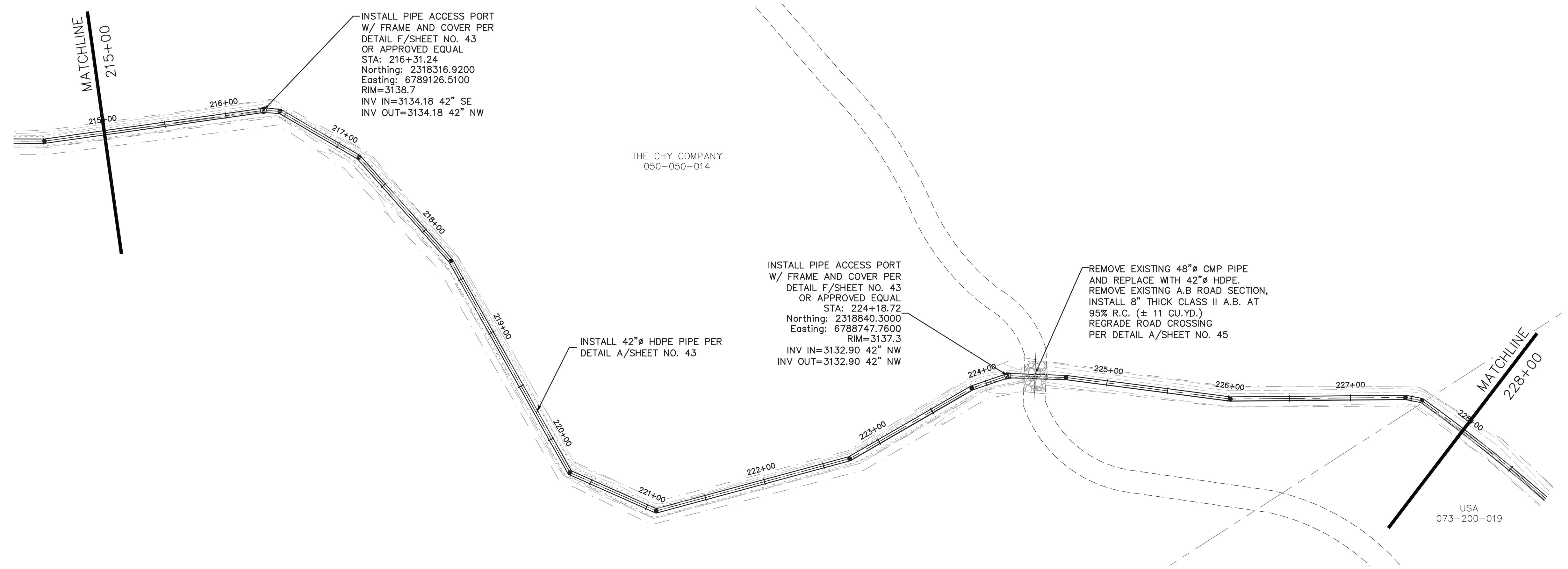


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
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| | Date: | AUGUST 2019 | | | |


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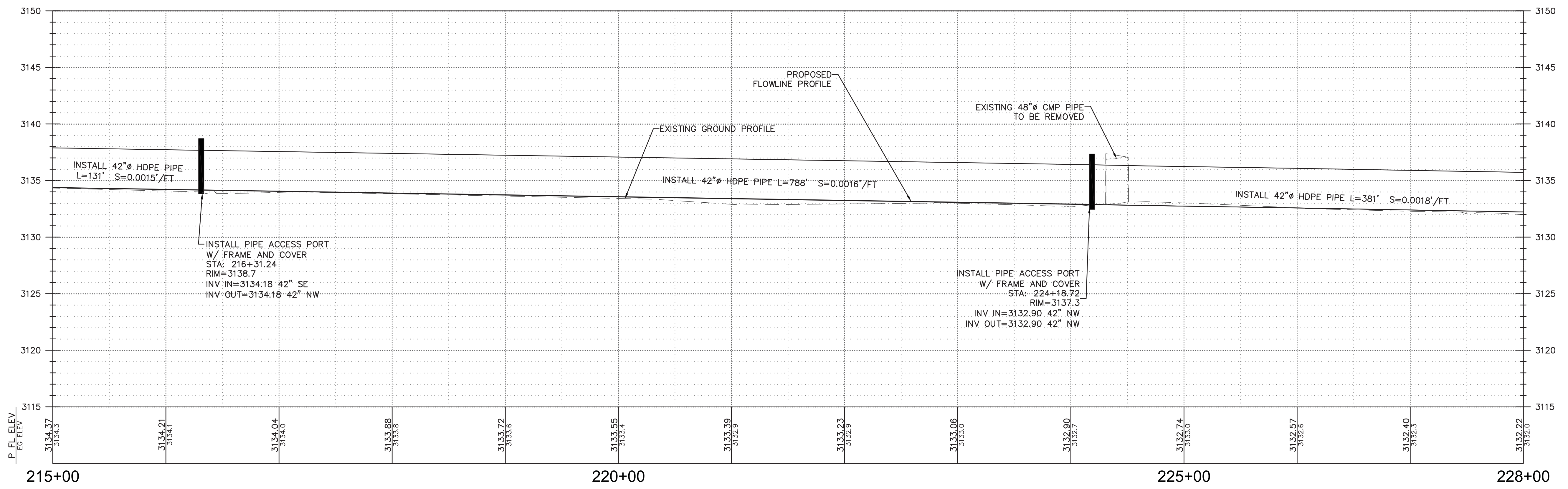
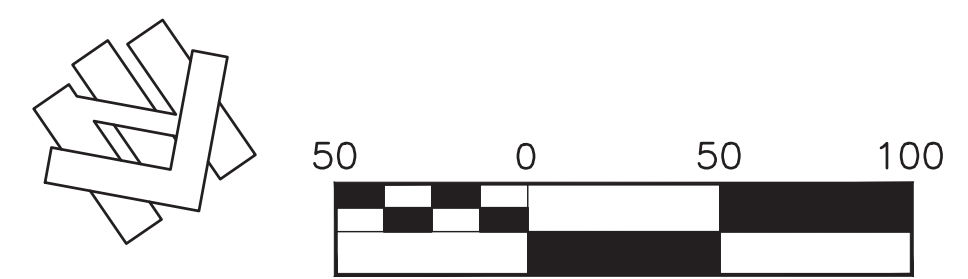
NORTH YUBA WATER DISTRICT
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 202+00 TO STA. 215+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 18 Of 45 |



KEY MAP
NOT TO SCALE

NOTE:
LOCATIONS OF EXISTING ROADS ARE APPROXIMATE
AND SHALL BE USED FOR REFERENCE ONLY.

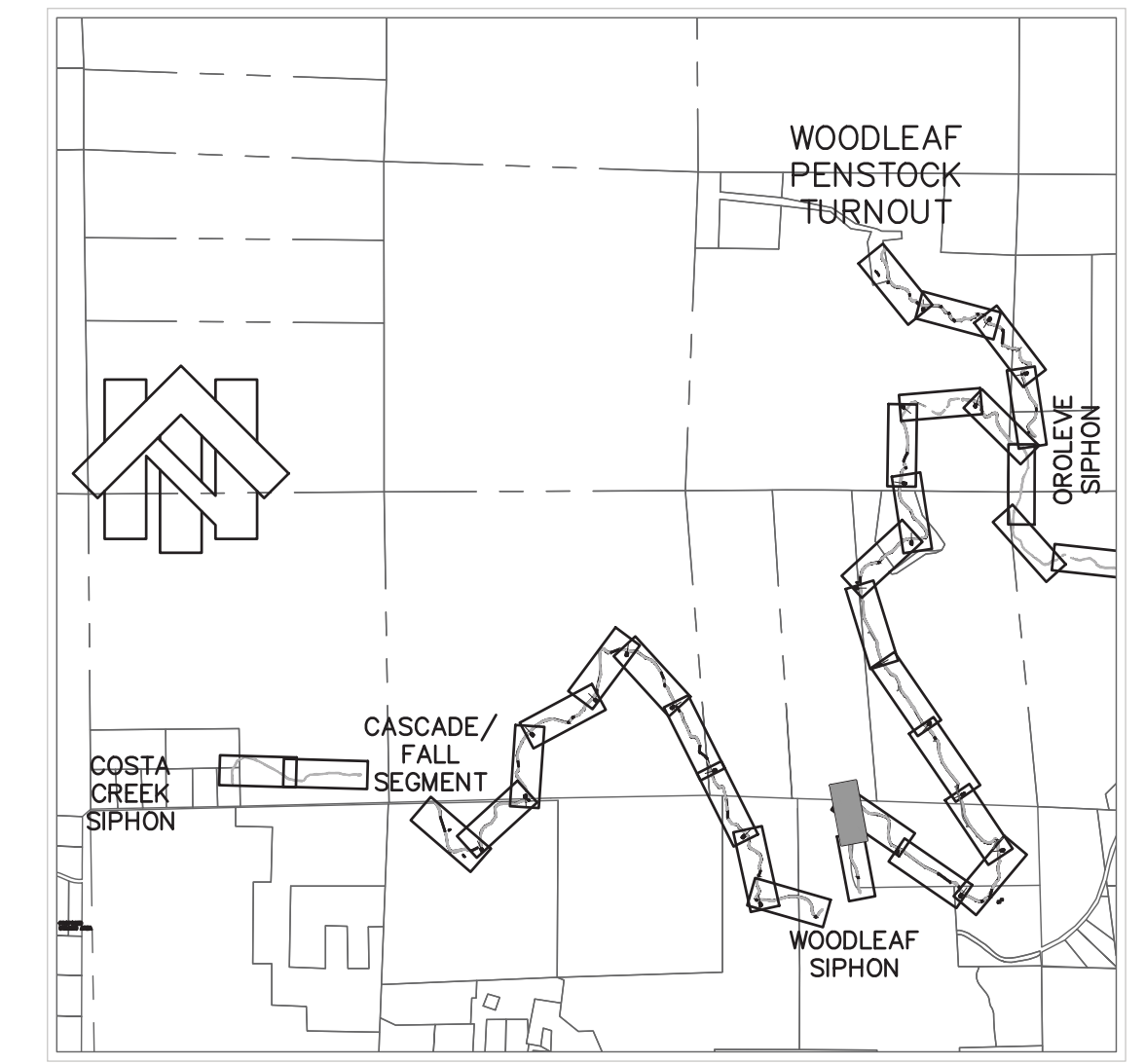
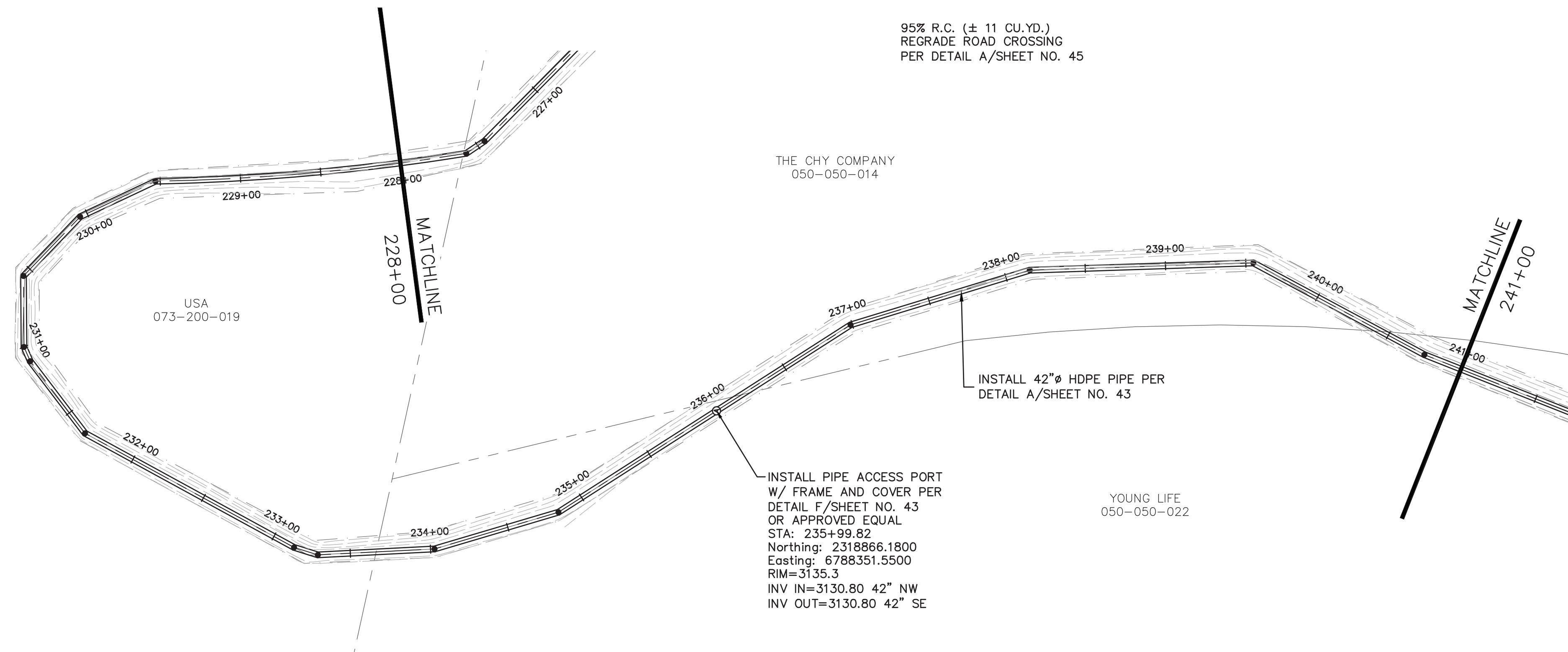


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |

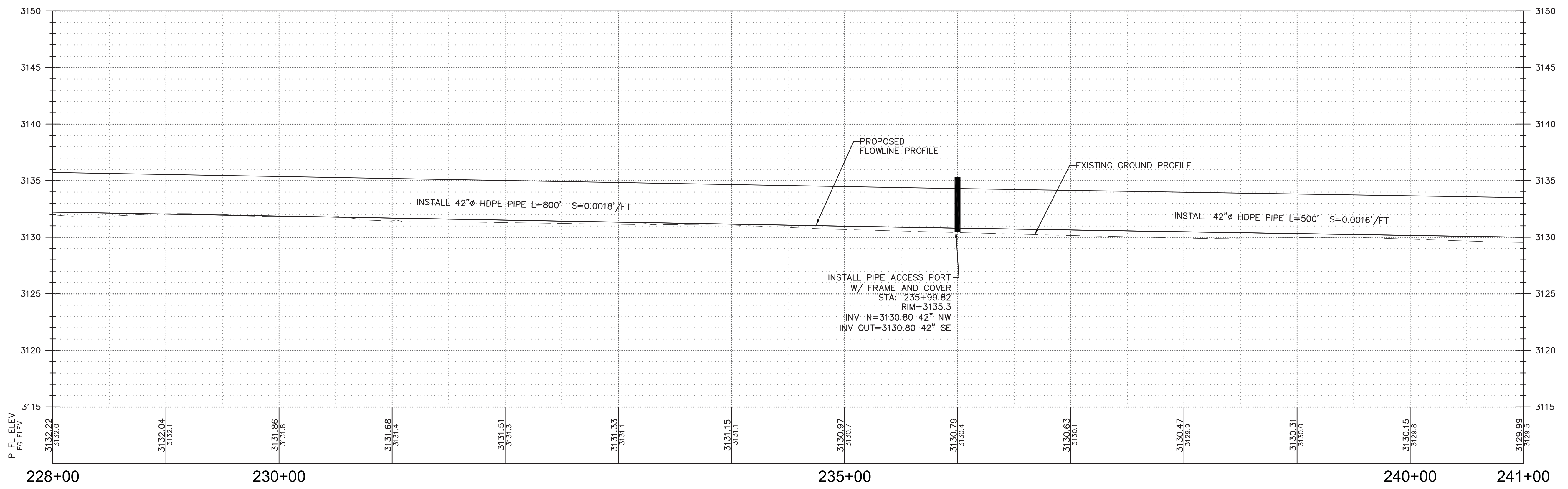
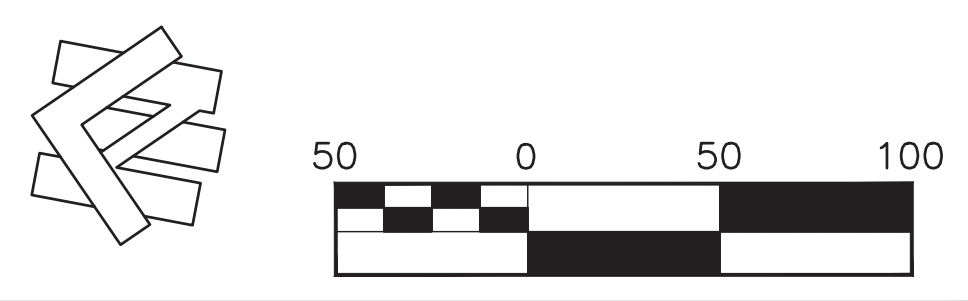


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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 215+00 TO STA. 228+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 19 Of 45 |



KEY MAP
NOT TO SCALE



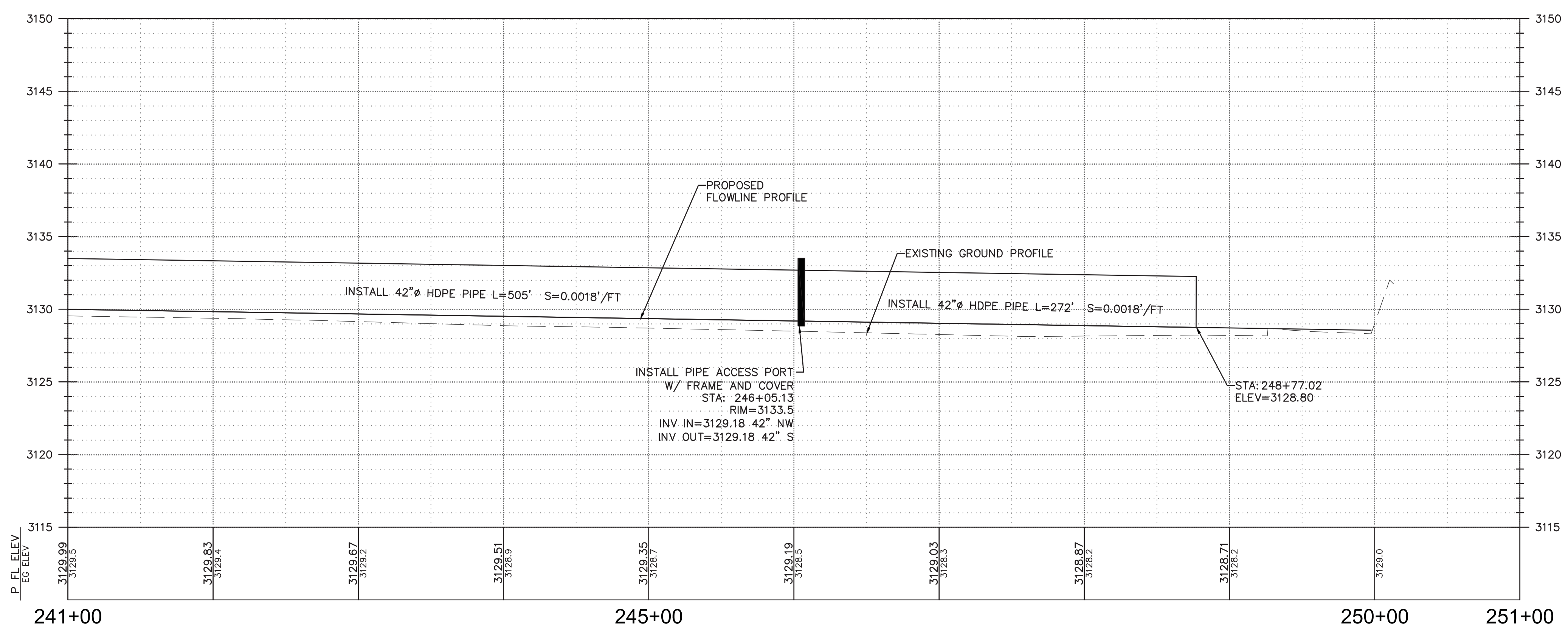
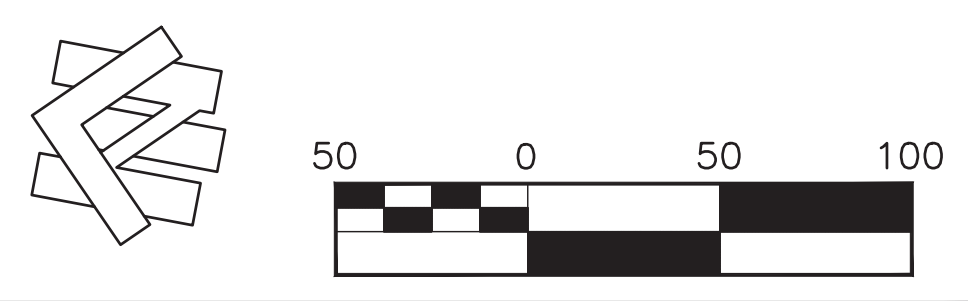
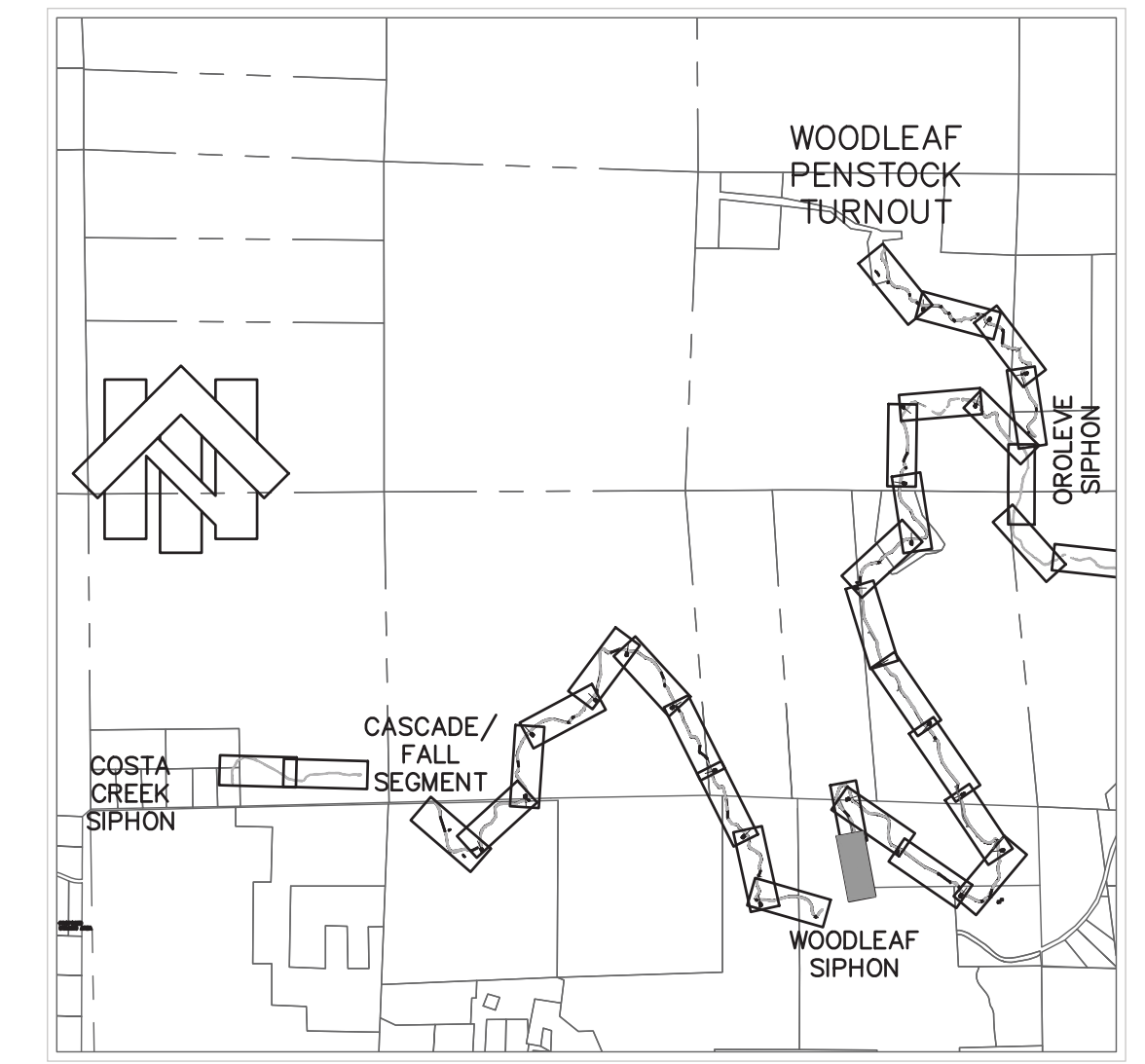
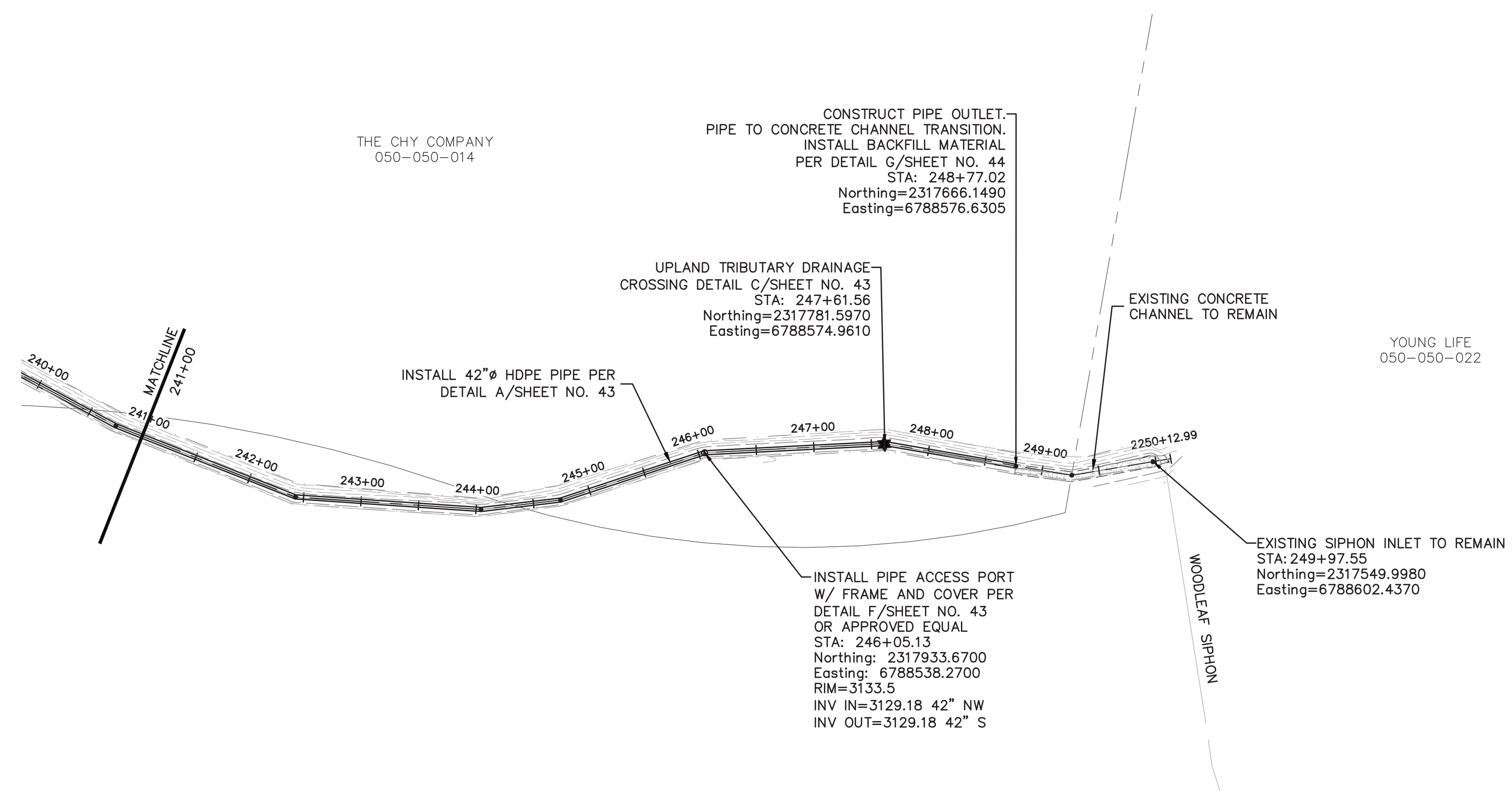
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| Designed: | RDG |
| Drawn By: | RDG |
| Approved: | |
| Date: | AUGUST 2019 |

| Revision | Date | By |
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| | | | |
|--|----------------------|---------------------------------------|----------------|
| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 228+00 TO STA. 241+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 20 Of 45 |

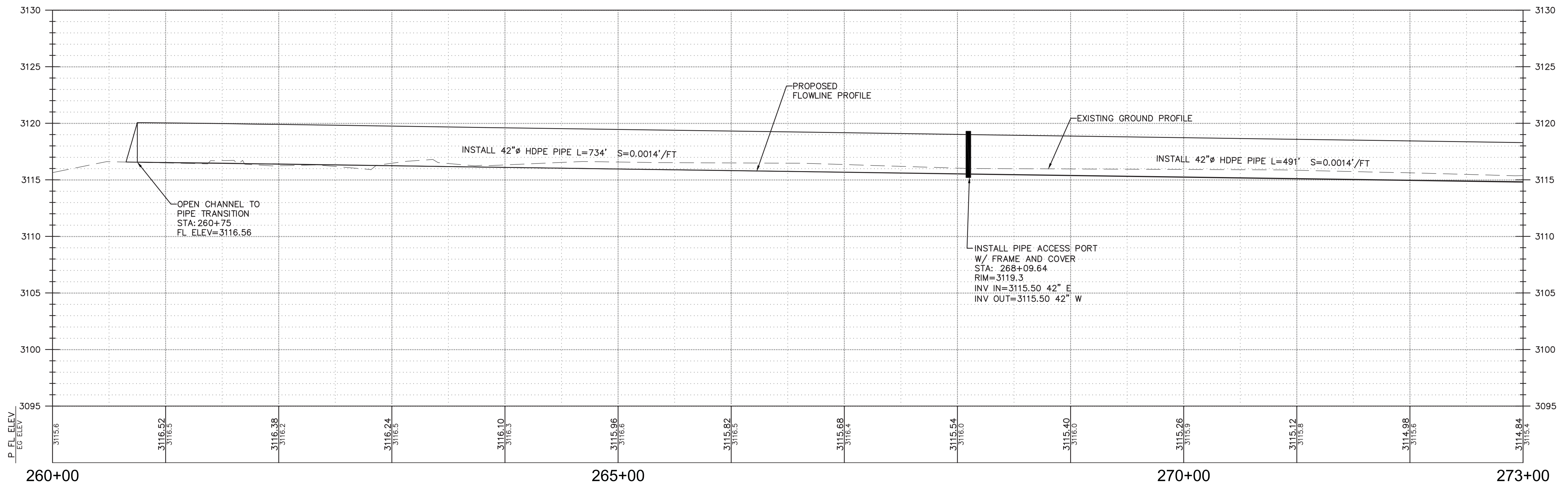
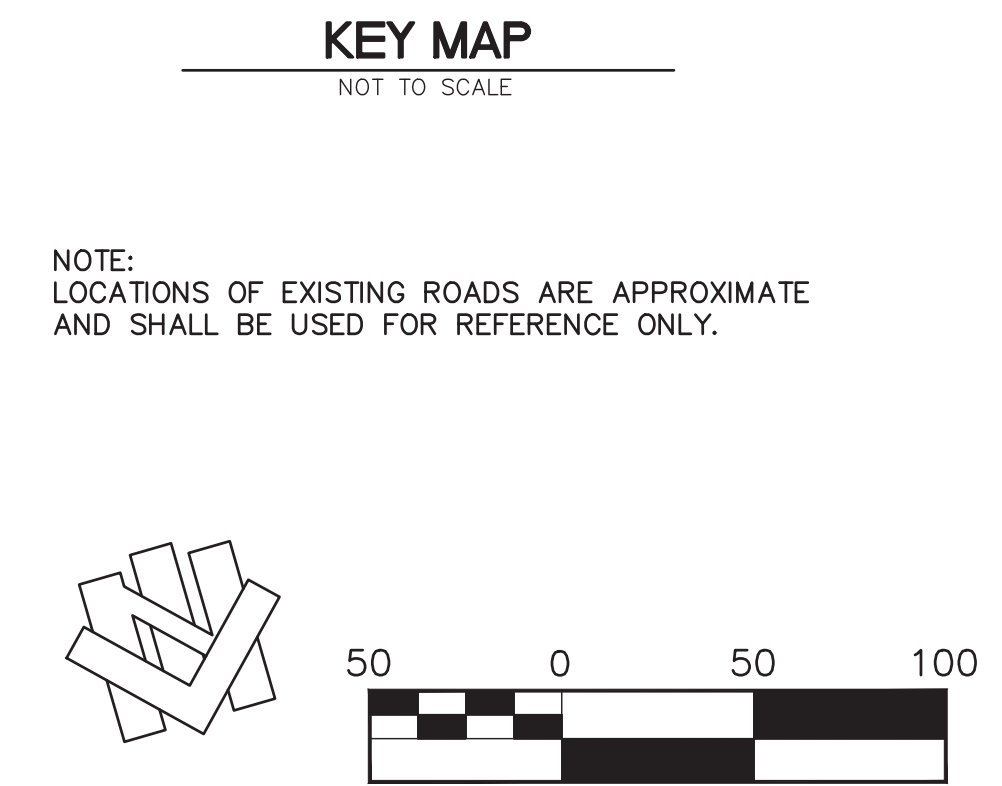
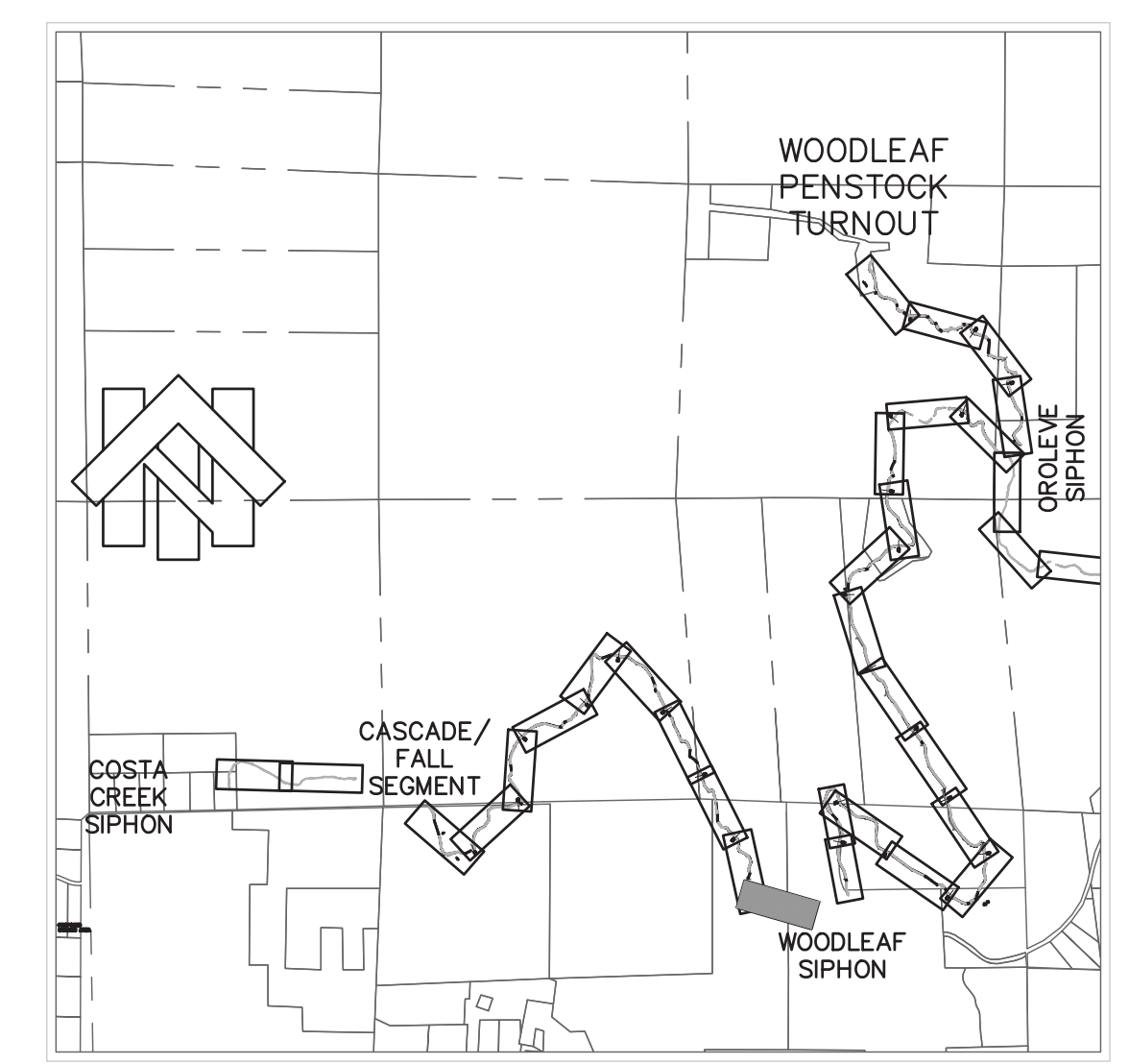
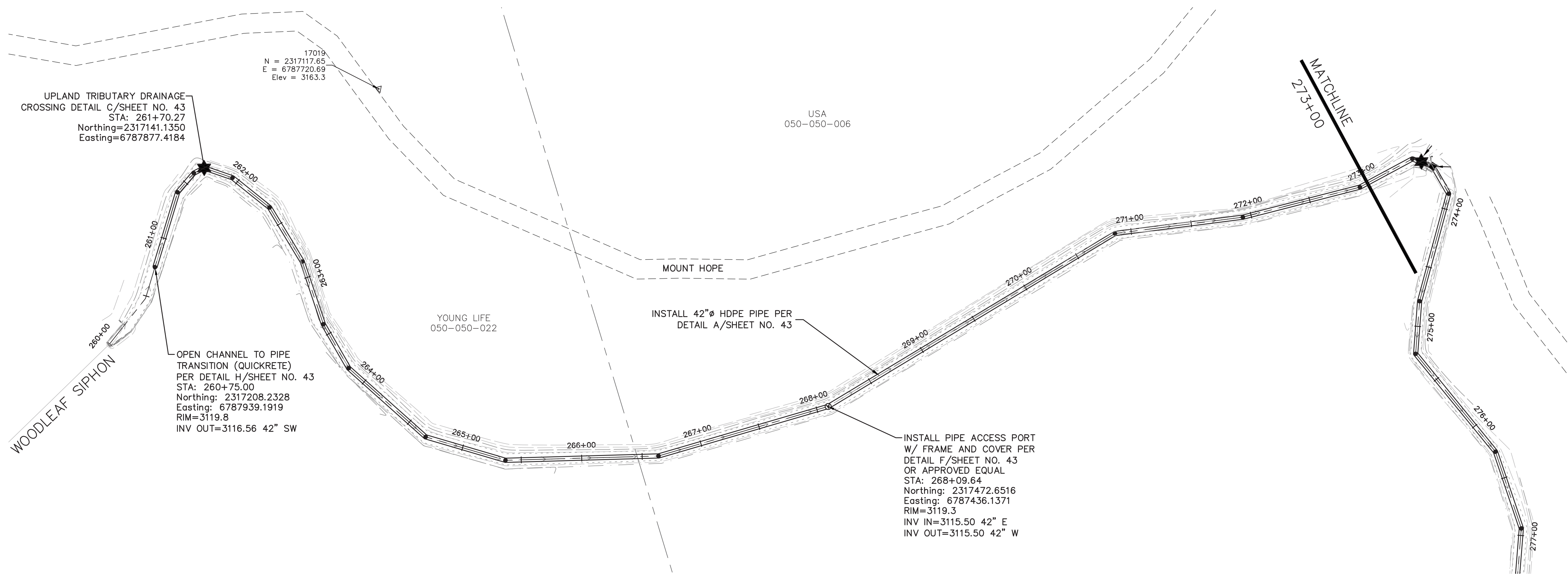


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



NORTH YUBA WATER DISTRICT
 8691 LA PORTE ROAD
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 241+00 TO STA. 251+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 21 Of 45 |

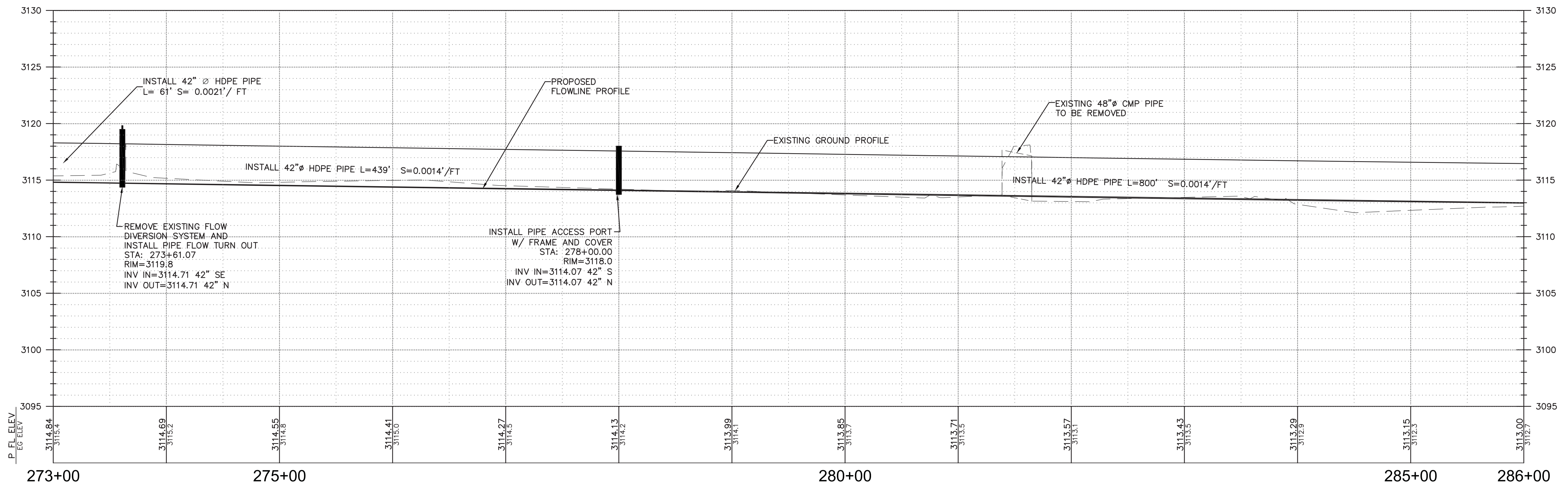
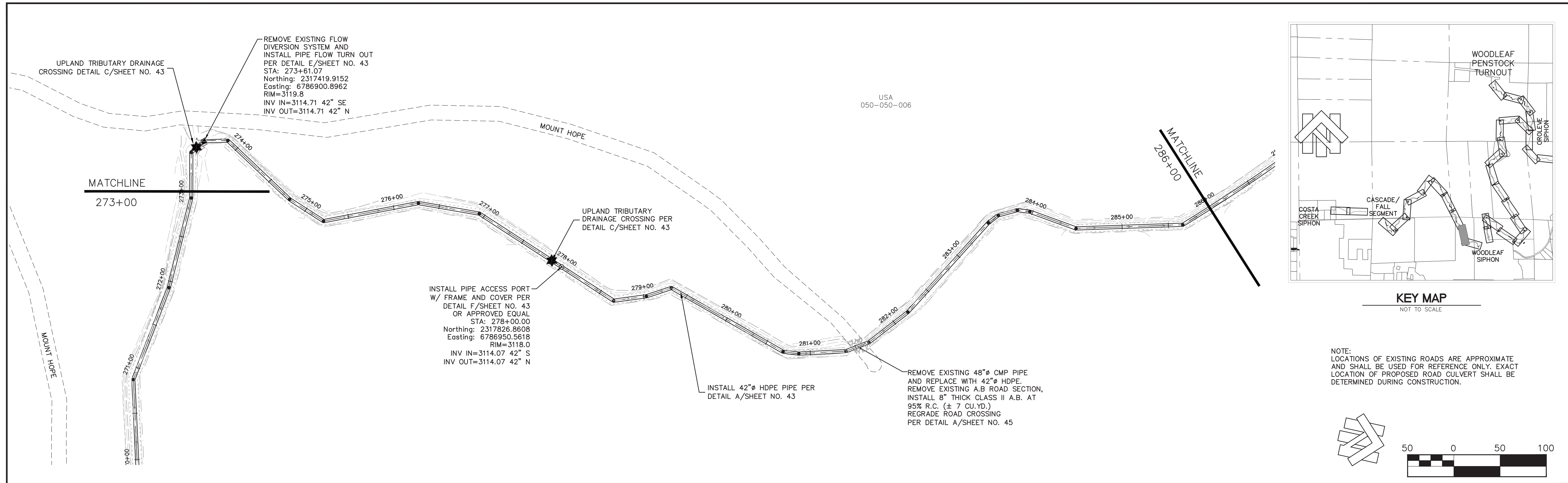


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| Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 260+00 TO STA. 273+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 22 Of 45 |

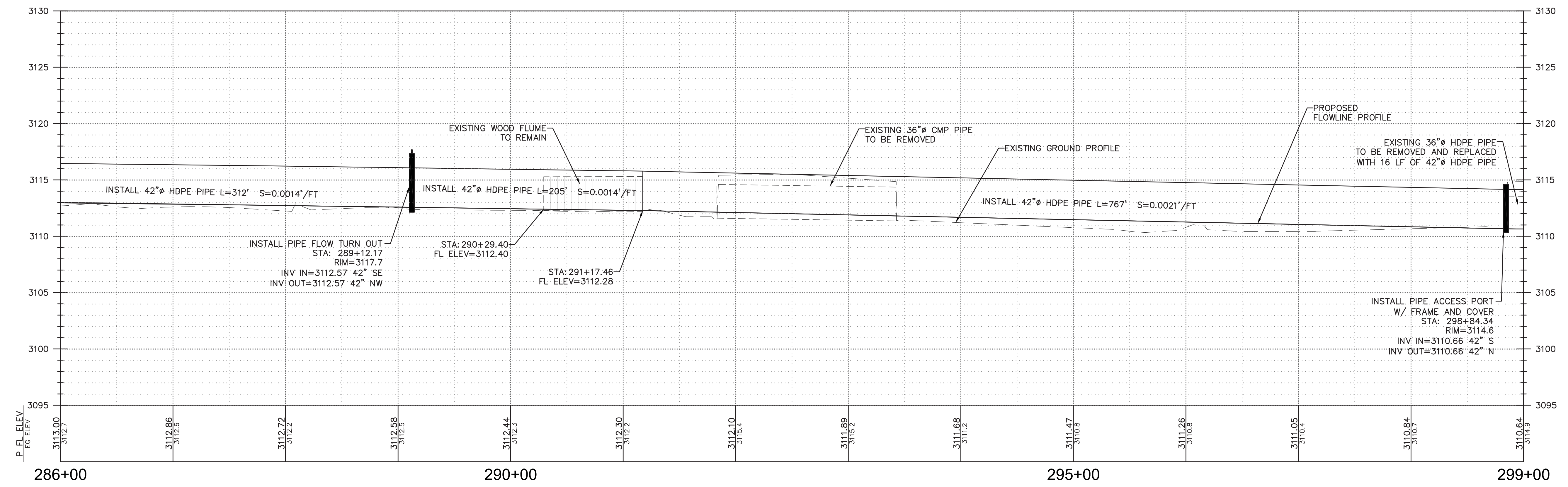
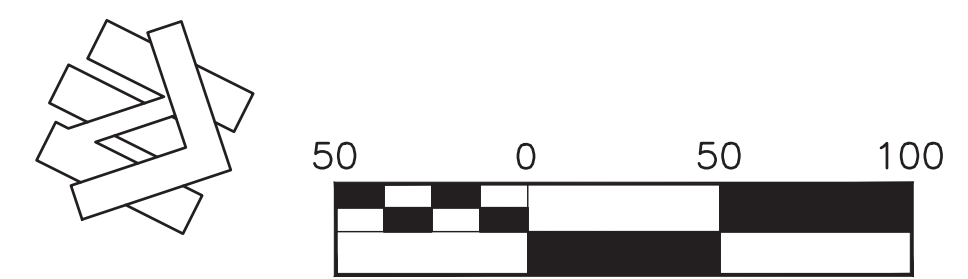
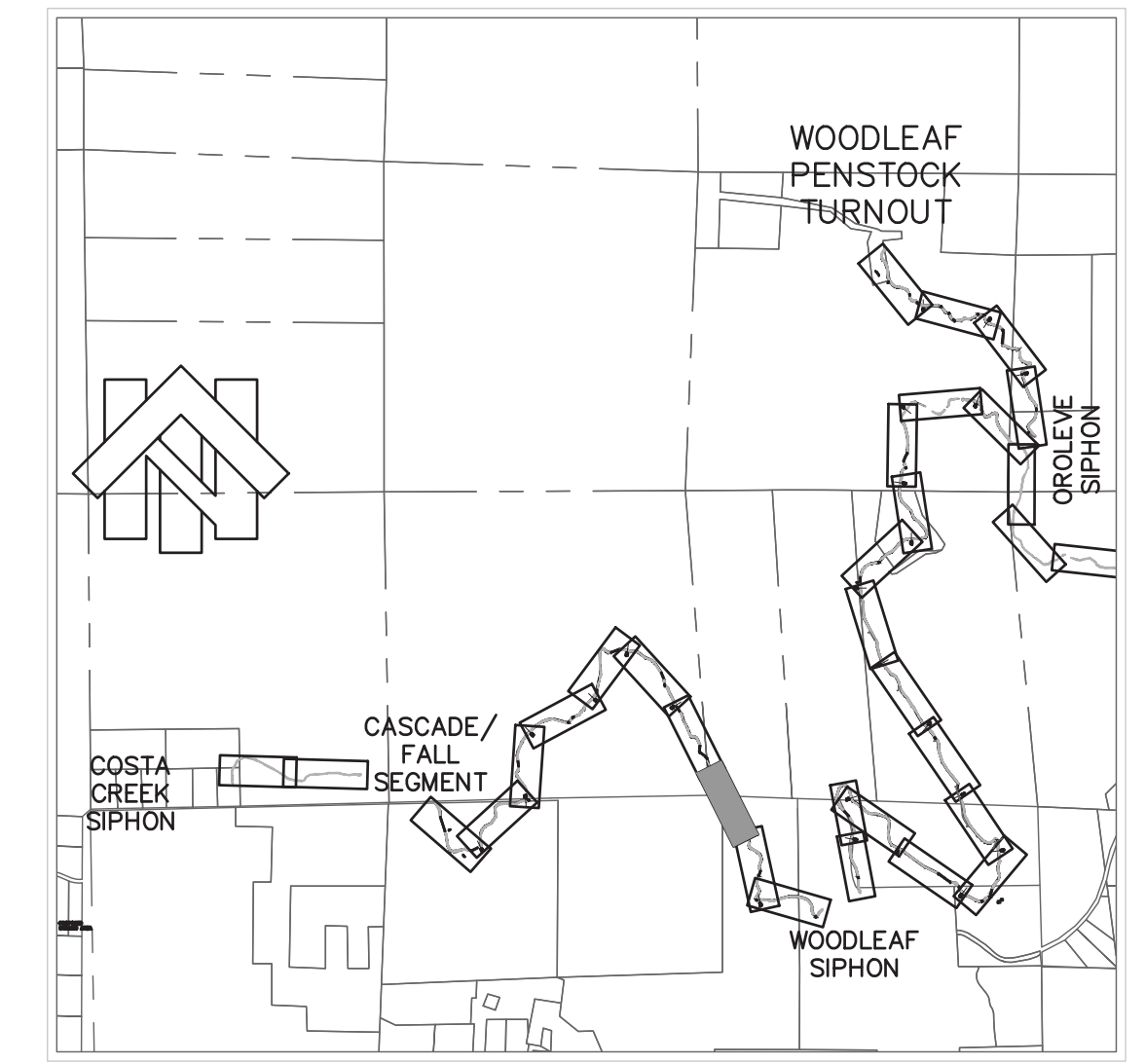
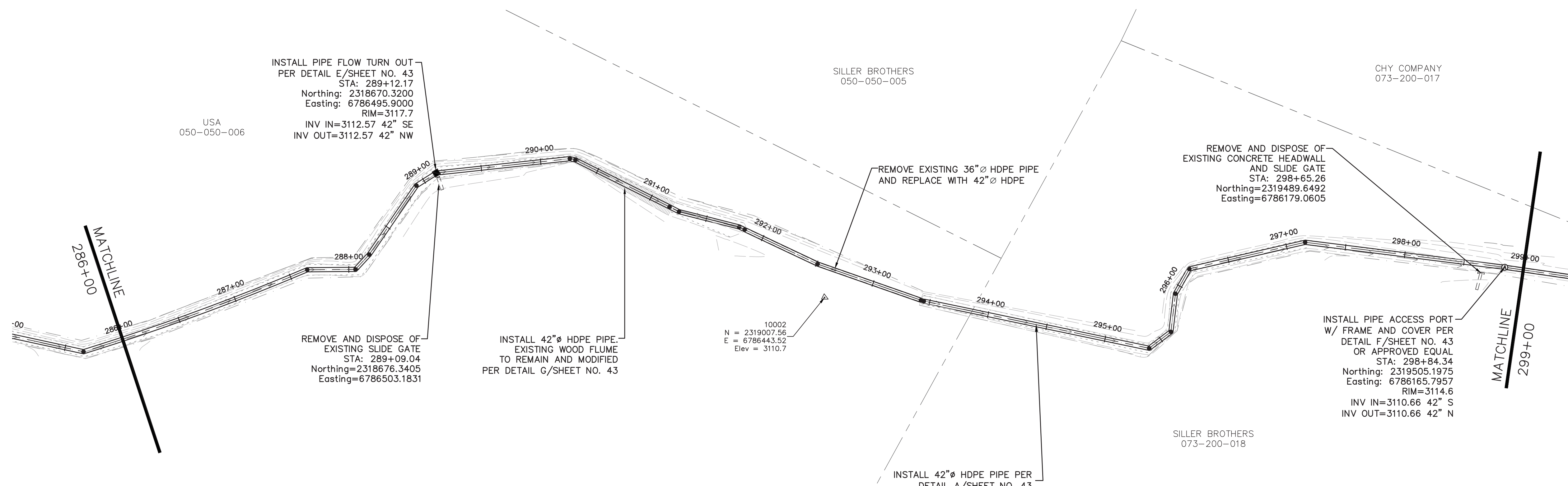


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| 6/3/2019 | Designed By: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 273+00 TO STA. 286+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 23 Of 45 |

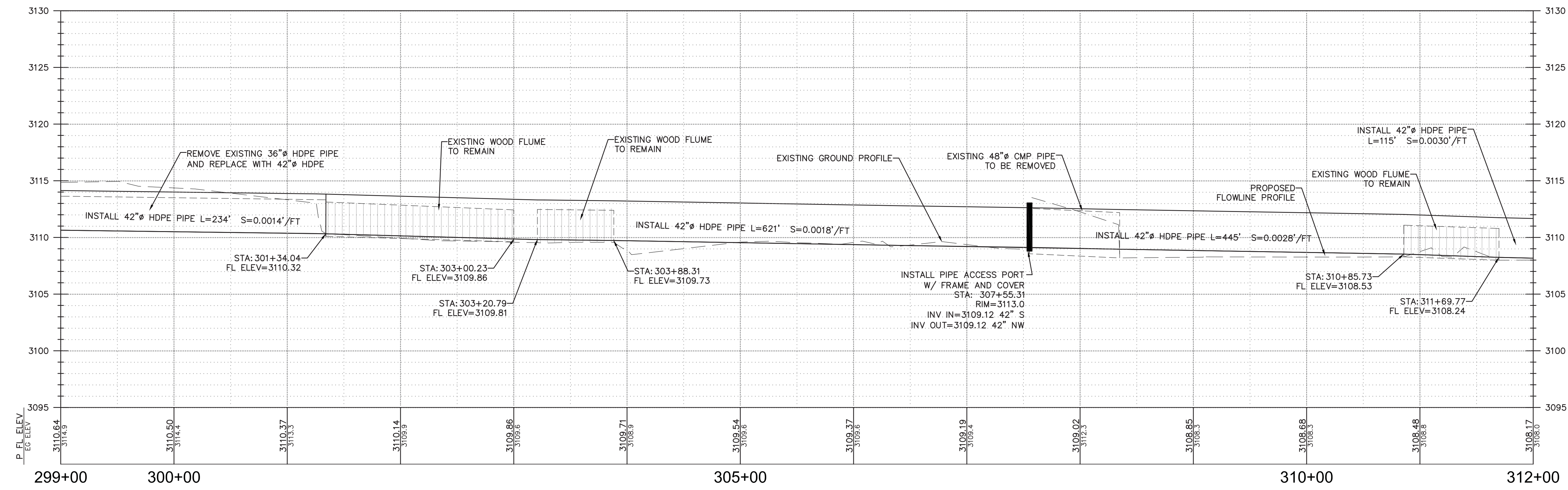
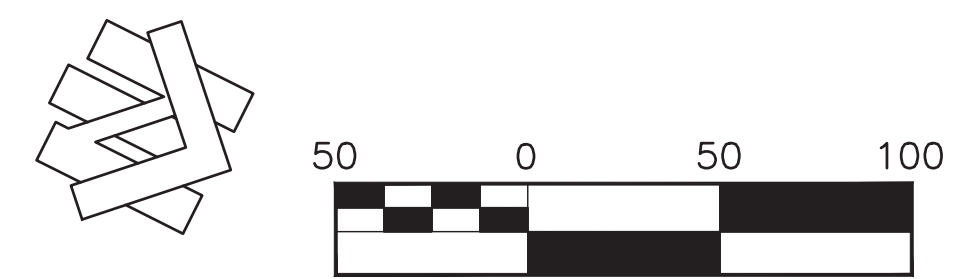
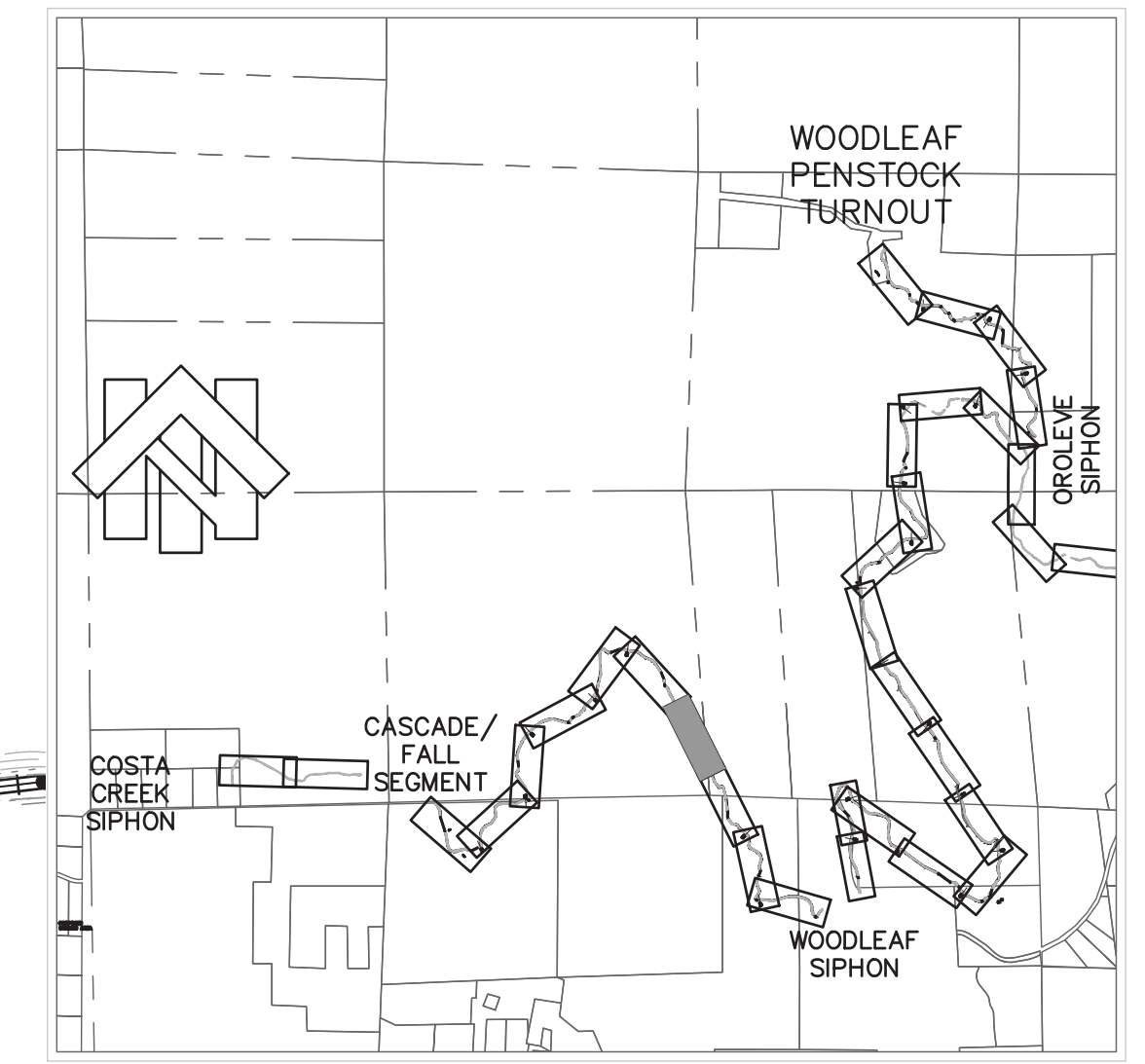
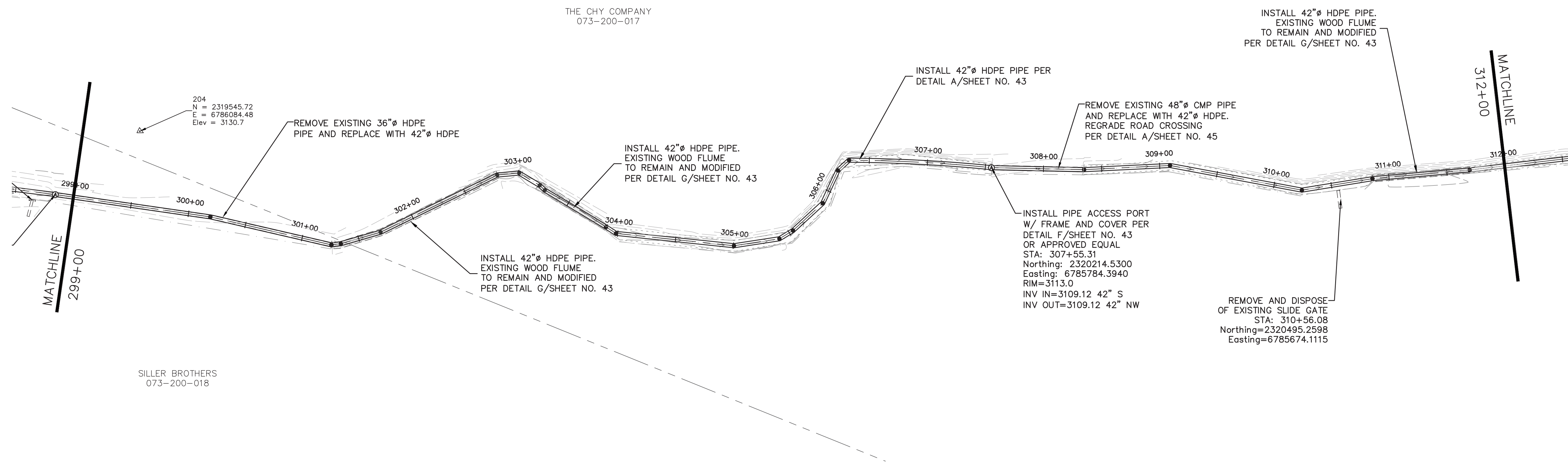


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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 286+00 TO STA. 299+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 24 Of 45 |



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| 6/3/2019 | Designed: | RDG | Revision | Date | By |
| | Drawn By: | RDG | REVIEW COMMENTS - 7/25/2019 | 8/19/2019 | RDG |
| | Approved: | | | | |
| | Date: | AUGUST 2019 | | | |



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| FORBESTOWN DITCH PROJECT | | | |
| PLAN AND PROFILE - STA. 299+00 TO STA. 312+00 | | | |
| APN Number 000-000-000 | Job Number 17-002 | Scale 1" = 50' Horz. 1" = 5' Vert. | Sheet 25 Of 45 |