PATH 22
MIDDLE SECTION PHASE 2
CATTLE TUNNEL TO SPRING GULCH

0 500 1000 Feet

N

LEGEND

- RIGHT OF WAY
- EDGE OF EXISTING PAVEMENT
- EXISTING FENCE
- PROPOSED SAFETY RAILING
- LIMITS OF DISTURBANCE
- SILT FENCE
- SEDIMENT LOG
- EXISTING FIBER OPTIC
- EXISTING PHONE
- EXISTING POWER
- EXISTING WETLAND BOUNDARY
- PROPOSED RETAINING WALL

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703-2E	WYDOT STANDARD DETAILS FOR TRAFFIC CONTROL
X0 - X30	CROSS SECTIONS
BID ALT	BID ALTERNATE SHEET WEST INTERSECTION REALIGN

Professional Engineer (CIVIL) AMY M. RAMAGE 9476 WYOMING Date 6/24/2016
PROJECT DESIGN

Professional Engineer (Civil) PHILIP GYR 9699 WYOMING Date 6/24/16
RETAINING WALL DESIGN

GEC PERMIT SET 6/24/2016
FOR REVIEW & APPROVAL
NOT FOR CONSTRUCTION

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PATH 22 MIDDLE SECTION PHASE 2

CATTLE TUNNEL TO SPRING GULCH
HIGHWAY 22, TETON COUNTY, WY

Issue Date: Jun 24, 2016 - 1:31pm

Drawing Title: TITLE SHEET

TS 0

GENERAL

ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE 2010 WYOMING DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS MODIFIED BY THE SPECIAL PROVISIONS AND SUPPLEMENTARY SPECIFICATIONS.

1. All quantities are considered approximate.
2. The Contractor shall include all materials, tools, equipment, labor and appurtenant items to complete the work within the bid price.
3. The Contractor shall become familiar with the site prior to construction.
4. The Contractor shall verify all dimensions in the field and shall promptly notify the Engineer of any variations or discrepancies.
5. Legal load limit requirements shall be enforced on all State Highways, City Streets, and County Roads.
6. All excavation activities shall comply with Teton County GEC Permit issued for the project.
7. Contractor shall be required and responsible to obtain a Wyoming DEQ Stormwater Pollution Prevention Plan Permit (SWPP).
8. Contractor shall remove all materials, tools, equipment, and construction debris from the site immediately after completion of the work task. No construction debris shall be disposed of at the work site.
9. Hours of operation are restricted to 7:00 am to 7:00 pm Monday through Friday unless otherwise approved by Teton County.
10. Fill material shall be suitable on-site or imported material with rock no larger than six inches in diameter. Larger material may be placed only when authorized by the Engineer.

RIGHT-OF-WAY AND SURVEY

1. Right-of-way lines are shown based on a combination of survey and information provided by the WYDOT mapping & Teton County GIS. Their true locations may not be exactly as shown on the drawings.
2. The base mapping was developed by a combination of field survey and aerial photogrammetry data. The Contractor should make actual field investigations to assure himself of the physical features.
3. The Contractor shall protect all existing survey monumentation designated to remain, from any damage during construction operations.
4. Any disturbed property or land corners shall be reset by a professional land surveyor licensed in the State of Wyoming, at the Contractor's expense.
5. Contractor shall respect all right-of-way and easement boundaries shown. All work shall be done within these boundaries.

TRAFFIC CONTROL

1. The Contractor shall submit a traffic control plan for each project to be approved by the Teton County Engineering Dept. & WYDOT. All traffic control shall comply with the current addition of the Manual on Uniform Traffic Control Devices (MUTCD).
2. Absolutely no construction work shall commence on the project until necessary construction warning signs and traffic control are in place and approved by WYDOT and the Engineer.

EXISTING UTILITIES & SIGNAGE

1. The Contractor shall notify all utility companies and determine exact location of all underground utilities before commencing work. 48-hour notice is generally required. Contractor is responsible for protecting and the proper repairing of any damaged utilities.
2. Utility locations shown on the drawings were approximated based on a combination of survey and field data. All utility locations are subject to the accuracy of the data or location method and subject to relocation from the time that the drawings were prepared. No excavation was performed. LOCATIONS ARE APPROXIMATE and MAY NOT BE COMPLETE.
3. Utilities are NOT shown in the profile or cross sections.
4. The Contractor shall contact utility companies 48 hours prior to trenching within 10 feet of all overhead poles to allow for the utility company to secure poles.
5. No trenching or excavation operations shall take place until all utility and pipeline companies have been contacted and locations and elevations of the utilities and pipelines confirmed.
6. The Contractor shall notify the Engineer of all utilities encountered during construction, and shall not backfill until the Engineer has made a record of its type, size and location.
7. Prior to commencing construction, the Contractor shall excavate all existing utilities at critical locations to confirm location and bury depth.
8. The Contractor shall be responsible for protecting the WYDOT signs and mounts from damage during removal/replacement/storage. Any damaged material shall be replaced in kind.

RESTORATION

1. Place erosion control measures at low points and discharge points. Locations shown on plans are advisory and subject to revision during construction. THE CONTRACTOR IS REQUIRED TO OBTAIN A SWPP IN ACCORDANCE WITH THE STATE OF WYOMING DEQ RULES AND REGULATIONS.
2. Existing vegetation is to be maintained to the extent possible. All disturbed areas shall be reseeded as soon as practical in accordance with the revegetation specifications.
3. Fugitive dust will be controlled by watering during dry periods or as required by the Engineer. Contractor shall actively minimize the amount of dust, debris, and noxious fumes in the air.
4. Seed Mix for use in the WYDOT right-of-way shall be as follows:

Sodar Streambank Wheatgrass	6 lbs pure live seed per acre
Critana Thickspike Wheatgrass	5 lbs pure live seed per acre
Secar Bluebunch Wheatgrass	3 lbs pure live seed per acre
Pryor Slender Wheatgrass	2 lbs pure live seed per acre
Canbar Canby Bluegrass	1 lbs pure live seed per acre
	17 lbs pure live see per acre
Fertilizer	30 lbs available nitrogen per acre
Dry Mulch (straw grass or hay)	1.5 tons per acre

Seeding shall be completed on all disturbed areas and areas receiving topsoil at the locations indicated on the Drawings.
Apply seed mixes hydraulically in a slurry with a minimum amount of 500 lbs per acre of hydraulic mulch. Hydroseeding shall be accomplished using a multi-step process and shall not be applied with a large quantity of mulch on the first pass.

Erosion Control Blanket shall be required on slopes 3:1 and steeper. Mulch shall be applied hydraulically on top of the hydroseed slurry to enhance seedling establishment and to provide temporary erosion control.

Weed management: All disturbed areas shall be maintained week free during construction and during the first two growing seasons. Weed control shall be consistent with Teton County Weed and Pest established procedures and shall be performed at the first sign of weed presence.

See technical specifications for additional requirements on seeding and restoration.

SAFETY

1. General: The Contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. All excavations should comply with applicable local, state, and federal regulations including the current OSHA Excavation and Trench Safety Standards. Construction site safety is the sole responsibility of the Contractor, who shall also be solely responsible for the means, methods, and sequencing of construction operations.
2. Under no circumstances should the information provided be interpreted to mean that the Engineer is assuming responsibility for construction site safety or the Contractor's activities. Such responsibility is not being implied and shall not be inferred.
3. Excavation and Slopes: In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations. Specifically, the current OSHA Health and Safety Standards for Excavations, 29 CFR Part 1926 should be followed. It is the Engineer's understanding that these regulations are being strictly enforced and if they are not closely followed, the Contractor could be liable for substantial penalties.

PROJECT SCHEDULE:

START CONSTRUCTION: APPROX. AUGUST 1, 2016
FINAL SEEDING AND COMPLETION: OCTOBER 28, 2016
FINAL SITE REVEG: SUMMER 2017

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PATH 22

PATH 22 MIDDLE SECTION PHASE 2

CATTLE TUNNEL TO SPRING GULCH
HIGHWAY 22, TETON COUNTY, WY

Issue Date:
Jun 24, 2016 - 2:44pm

Drawing Title:
GENERAL_NOTES

TS1

Y:\A_PROJECTS - Pathways\MATZENMOBILE\PHASE_2\PLANS\GEN NOTES.dwg GENERAL_NOTES - Jun 24, 2016 02:44:43 pm PLOTTED BY: aramage

BLOCK RETAINING WALL

WALL	PATH BEGIN STA	LENGTH FT	SIDE	CONDITION	WALL FACE SF	STRUCTURAL FILL CY	GEOGRID SF
A	3+25	73.5	RT	FILL	310.5	42	162
B	3+70	64.5	LT	CUT	231.25	29	88
C	3+88	55.5	RT	FILL	133.75	8	0
D	12+90	91.5	RT	FILL	689.5	215	1890
E	13+70	66	RT	FILL	508	172	1556
F	14+03	126	RT	FILL	830.75	196	1350
G	15+20	54	RT	FILL	139	8	0
H	15+60	114	RT	FILL	625.5	108	820
I	16+59	57	RT	FILL	238.5	28	234
J	16+95	126	RT	FILL	758.5	149	1010
K	18+56	90	RT	FILL	351	39	118
TOTAL		918			4816.25	994	7228
FOR ESTIMATE		(E)			4825	(E)	(E)

(E) FOR ESTIMATING PURPOSES ONLY
NOTE THAT LENGTH, STRUCTURAL FILL & GEOGRID QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT PAY ITEMS

FENCE (SAFETY RAILING)

BEGIN STA	END STA	SIDE	LENGTH FT	COMMENTS
3+00	4+42	RT	142	
3+81	4+34	LT	53	
12+25	21+00	RT	775	INCLUDE GAPS AS DIRECTED BY ENGINEER
32+25	34+00	RT	175	
TOTAL			1145	
FOR ESTIMATE			1150	

INCLUDE 20'± GAPS IN RAILING NEAR STA 13+80, 15+35, 16+75, 18+25, 33+00
OR AS DIRECTED BY ENGINEER

ROAD SIGNAGE

STA	SIGN TYPE	POSTS	NOTES	REMOVE & RESET SIGN EA
21+36	RT YELLOW CURVE ARROW / MAY BE ICY	SINGLE	REMOVE & RESET	1
26+79	YELLOW TRAFFIC LIGHT SIGN	SINGLE	REMOVE & RESET	1
35+48	REDUCED SPEED 40 / 750 FT AHEAD	SINGLE	REMOVE & RESET	1
41+90	SPEED LIMIT 40	SINGLE	LEAVE IN PLACE	
44+86	JUNCTION 26/89/189/191 1/2 MILE	DOUBLE	REMOVE & RESET	1
46+18±	FIBER OPTIC WARNING SIGN ON POST	SINGLE	UTIL CO. TO MOVE	
46+28±	GREEN SPRING GULCH RD LT. ARROW	SINGLE	REMOVE & RESET	1
TOTAL				5

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE WYDOT SIGNS AND MOUNTS FROM DAMAGE.
ANY DAMAGED MATERIAL SHALL BE REPLACED IN KIND.

GRADING SUMMARY

	STATION	- STATION	CY UNCLASSIFIED EXCAVATION TOPSOIL STRIPPING	CUT	EMBANKMENT FILL	STRUCTURAL FILL	IMPORT BORROW
TUNNEL SPUR	0 + 00.00	0 + 57.16	9	241	6	0	-235
MAINLINE	1 + 00.00	46 + 47.00	1417	1010	4569	994	2565
	TOTAL		1427	1251	4575	994	2330
	FOR ESTIMATE		2678		(E)	1000	2500

(E) FOR ESTIMATING PURPOSES ONLY, NOT A PAY ITEM
UNCLASSIFIED EXCAVATION INCLUDES TOPSOIL
TOPSOIL PLACEMENT PAID AS SEPARATE BID ITEM
QUANTITIES ARE ESTIMATES ONLY AND DO NOT INCLUDE COMPACTION OR SHRINKAGE FACTORS.
QUANTITIES SHOWN ARE NOT GUARANTEED TO REPRESENT EXACT QUANTITIES REQUIRED DURING CONSTRUCTION.

PATHWAY SIGNAGE

STA	SIDE	OFFSET FROM EOP	COMMENTS	PATHWAY SIGNS EA
TOTAL				0

PATHWAY PAVEMENT MARKINGS

BEGIN STA	END STA	DESCRIPTION	COLOR	PAVEMENT MARKINGS 4" CL LF	PAVEMENT MARKINGS 6" STOP BARS LF
TOTAL				0	

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PATH 22

PATH 22 MIDDLE SECTION PHASE 2

CATTLE TUNNEL TO SPRING GULCH
HIGHWAY 22, TETON COUNTY, WY

Issue Date:
Jun 25, 2016 - 2:18pm

Drawing Title:
SUMMARIES

TS2

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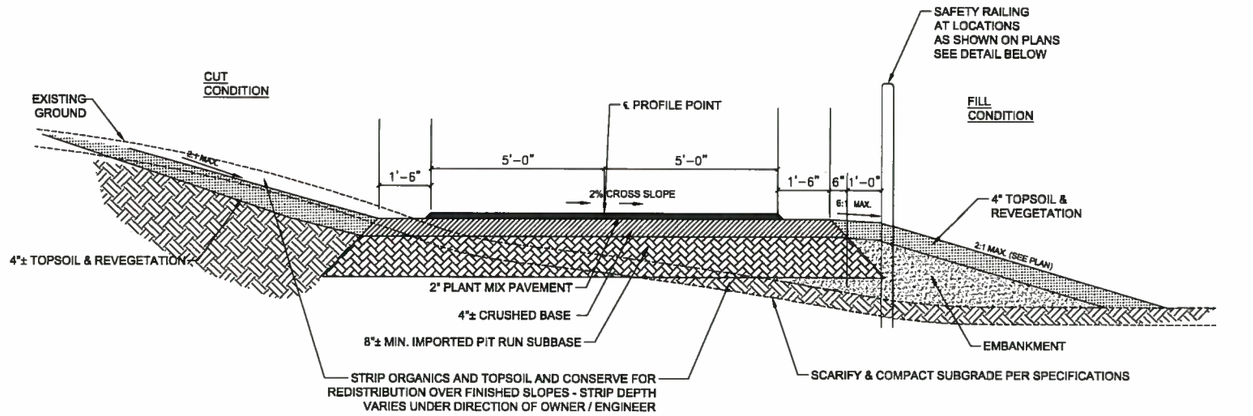
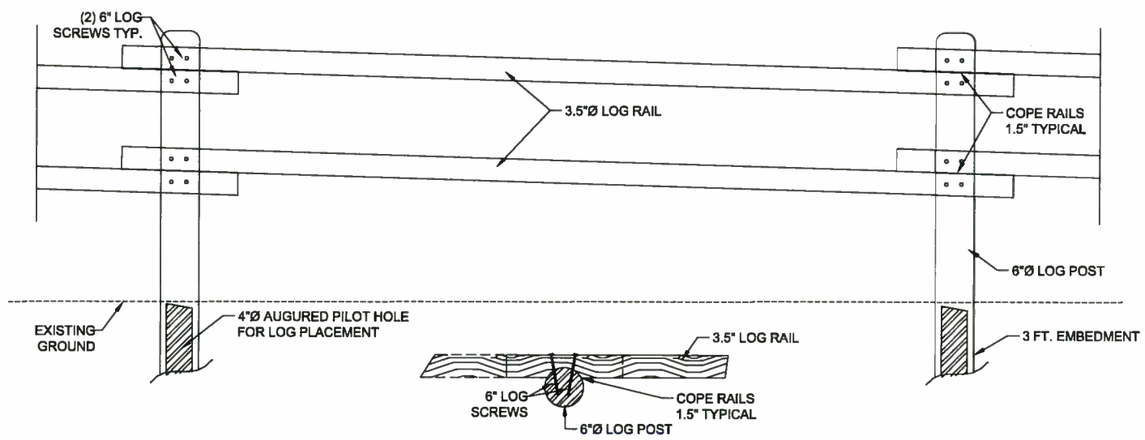


SEE RETAINING WALL DETAIL SHEETS RW01-RW12 FOR TYPICAL SECTIONS IN WALL AREAS

1 / TS 3 PATHWAY TYPICAL SECTION

NTS



NOTES:

1. ALL RAILS AND POSTS SHALL BE FULLY PRESSURE TREATED PER WSSRBC SECTION 817.
2. RAILS SHALL BE LOCATED ON THE PATHWAY/ROAD SIDE OF THE POST.
3. RAILING SHALL BE INSTALLED 3' FROM EDGE OF PATHWAY. SEE SHEET RW-12 FOR FURTHER DETAIL.

2 / TS3 PEDESTRIAN RAIL DETAIL

N.T.S.

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PATH 22

PATH 22 MIDDLE SECTION PHASE 2

CATTLE TUNNEL TO SPRING GULCH
HIGHWAY 22, TETON COUNTY, WY

Issue Date:
Jun 25, 2016 - 1:27pm

Drawing Title:
TYPICAL SECTIONS

TS 3

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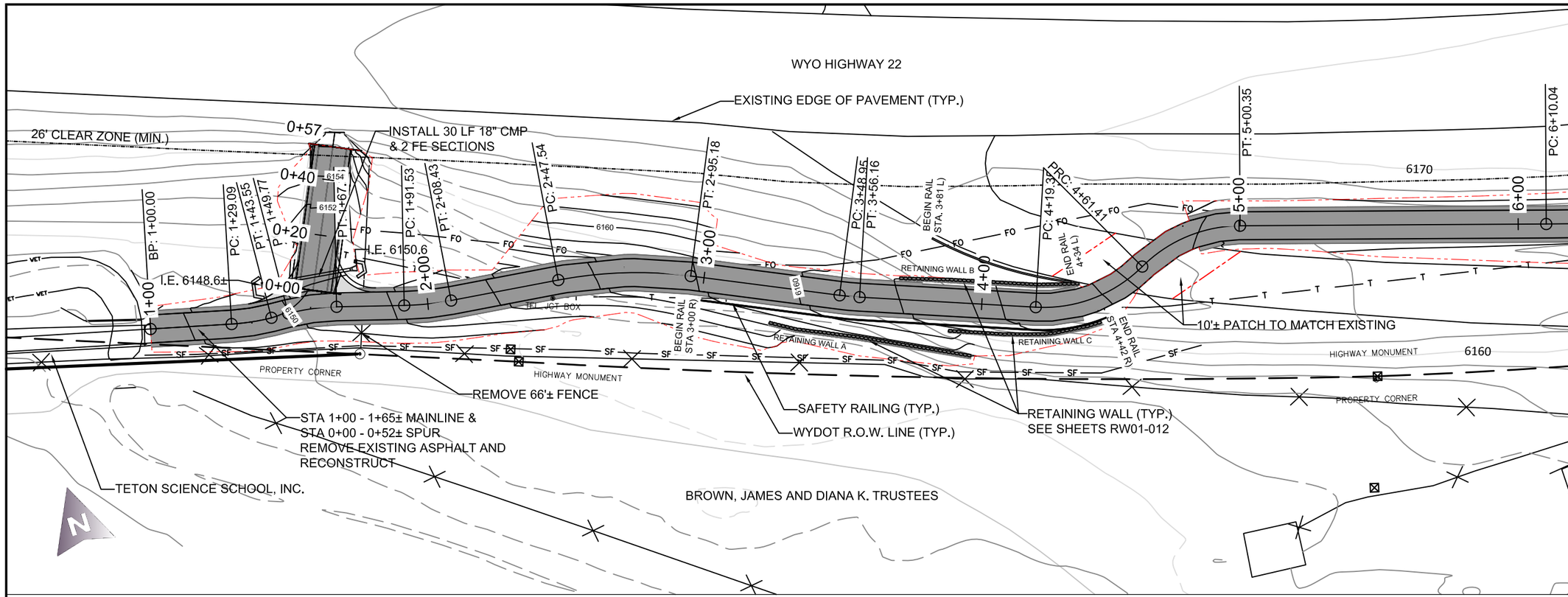

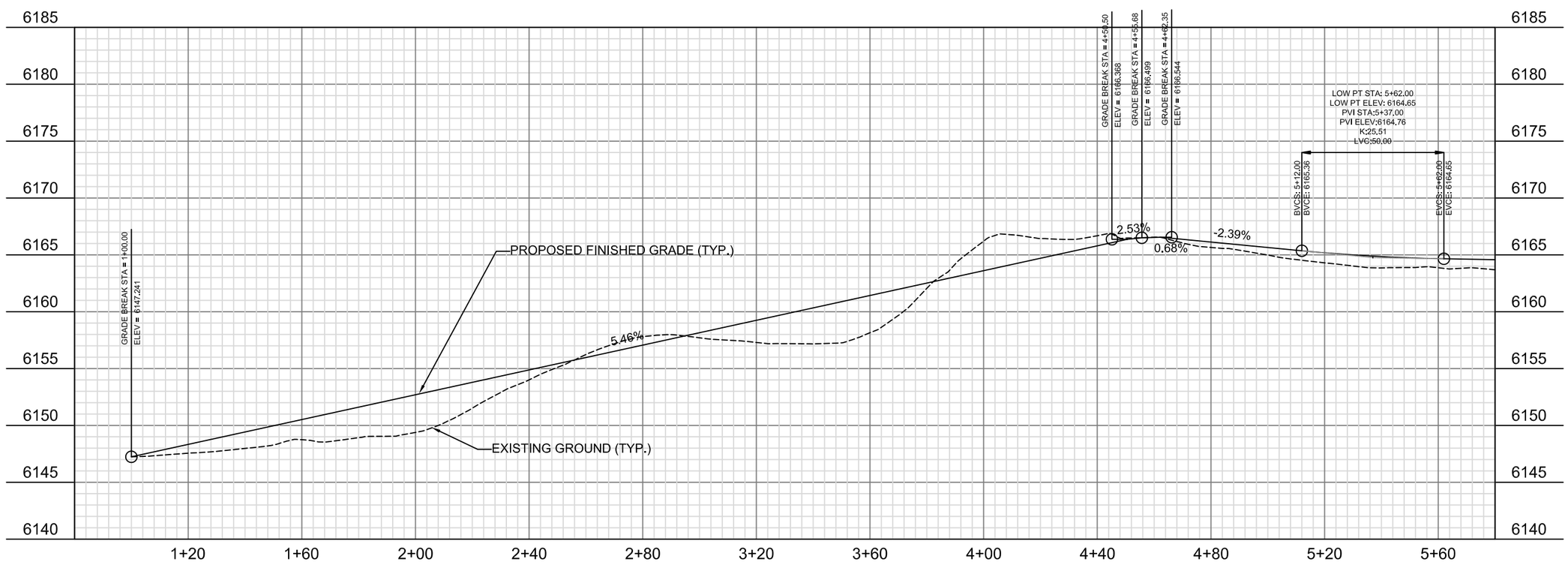

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP1

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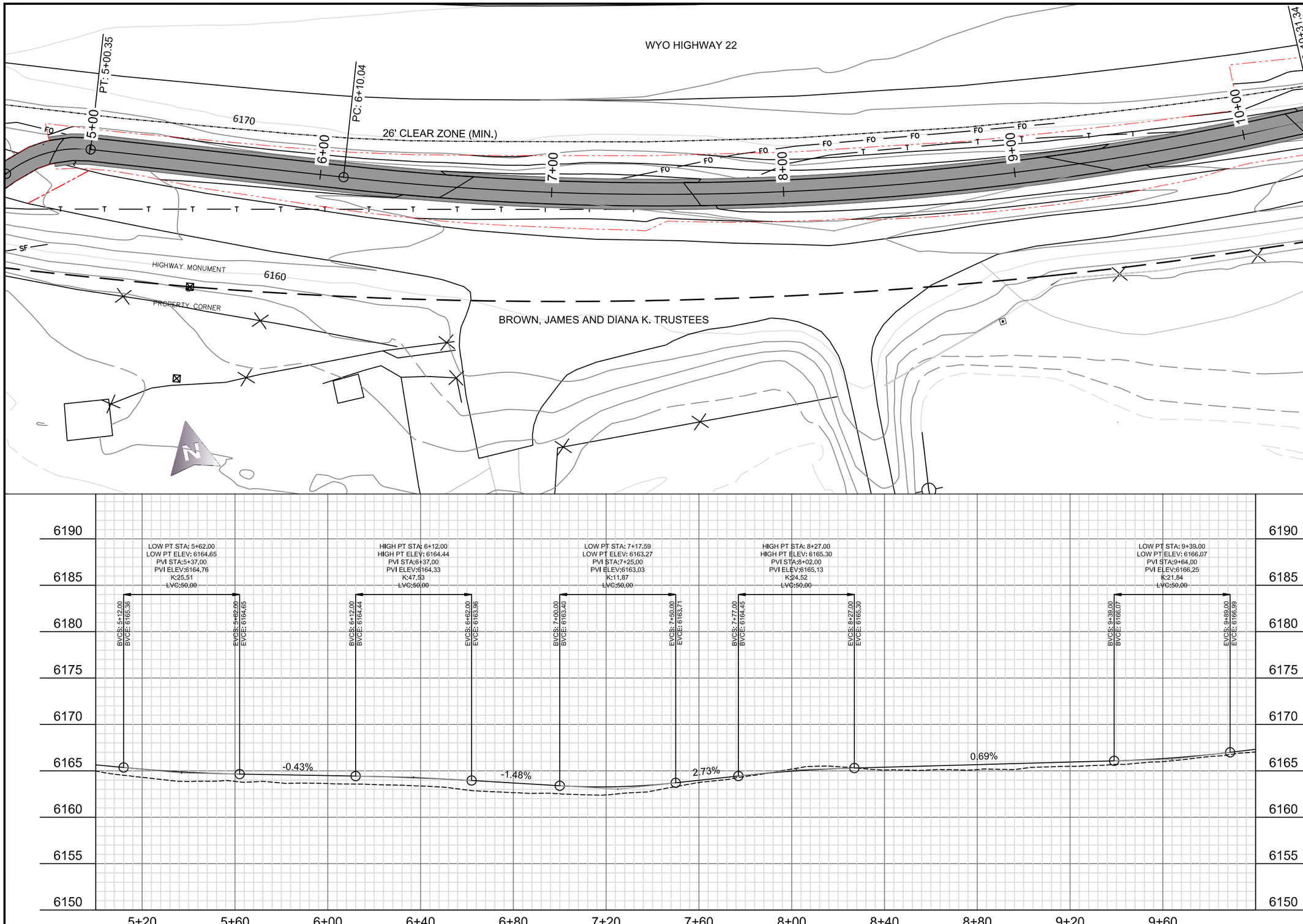

SCALE: (H) 1" = 40' (V) 1" = 10'

TETON COUNTY WYOMING

JACKSON HOLE COMMUNITY PATHWAYS
PATH 22

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
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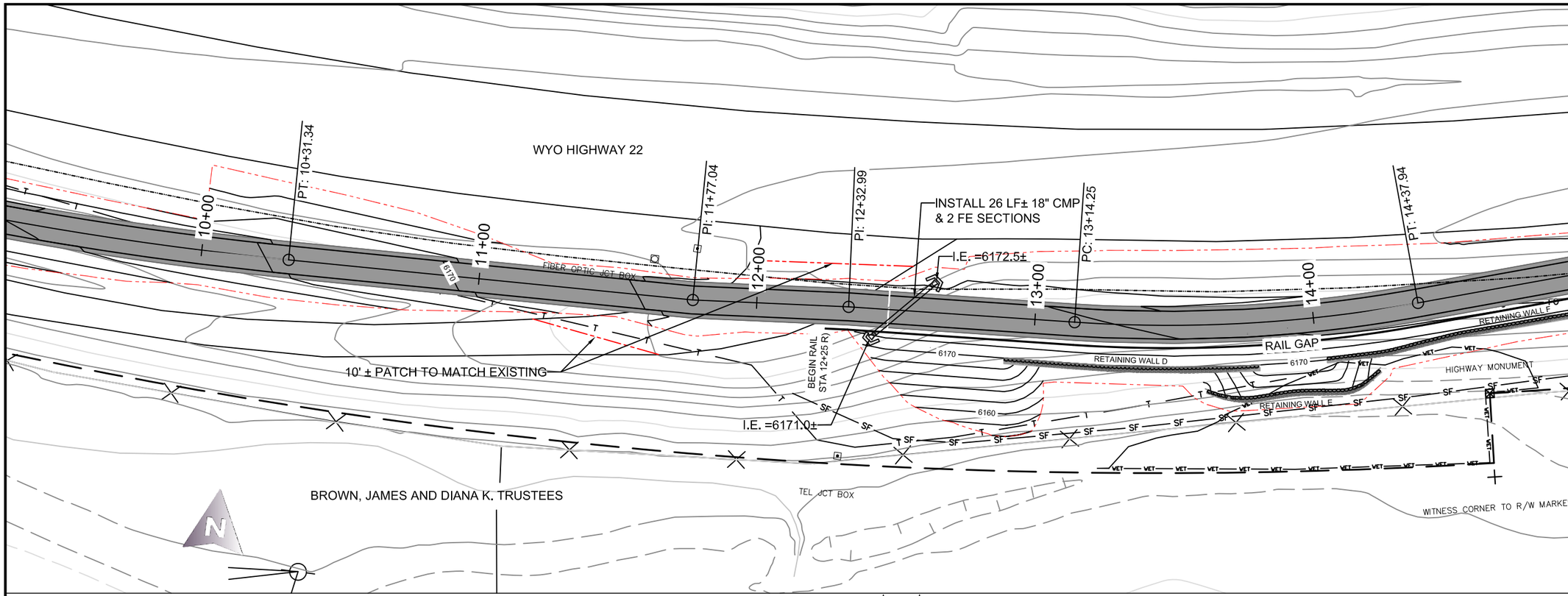

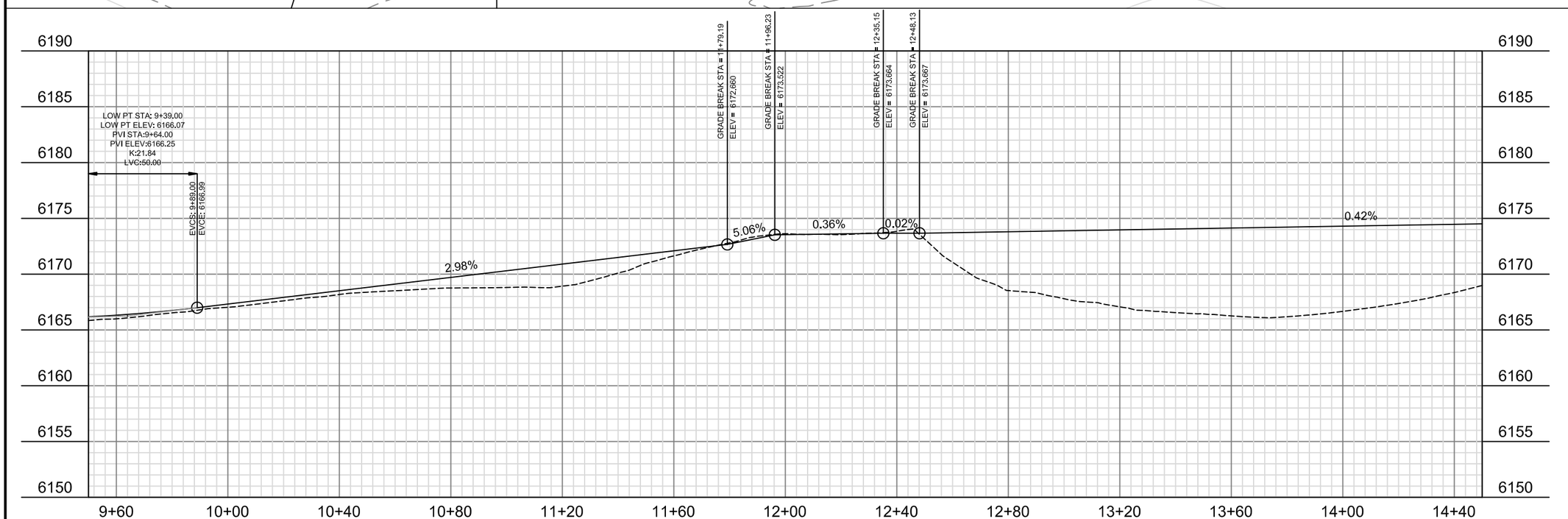

SCALE: (H) 1" = 40' (V) 1" = 10'

TETON COUNTY WYOMING

JACKSON HOLE COMMUNITY PATHWAYS
PATH 22

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP3

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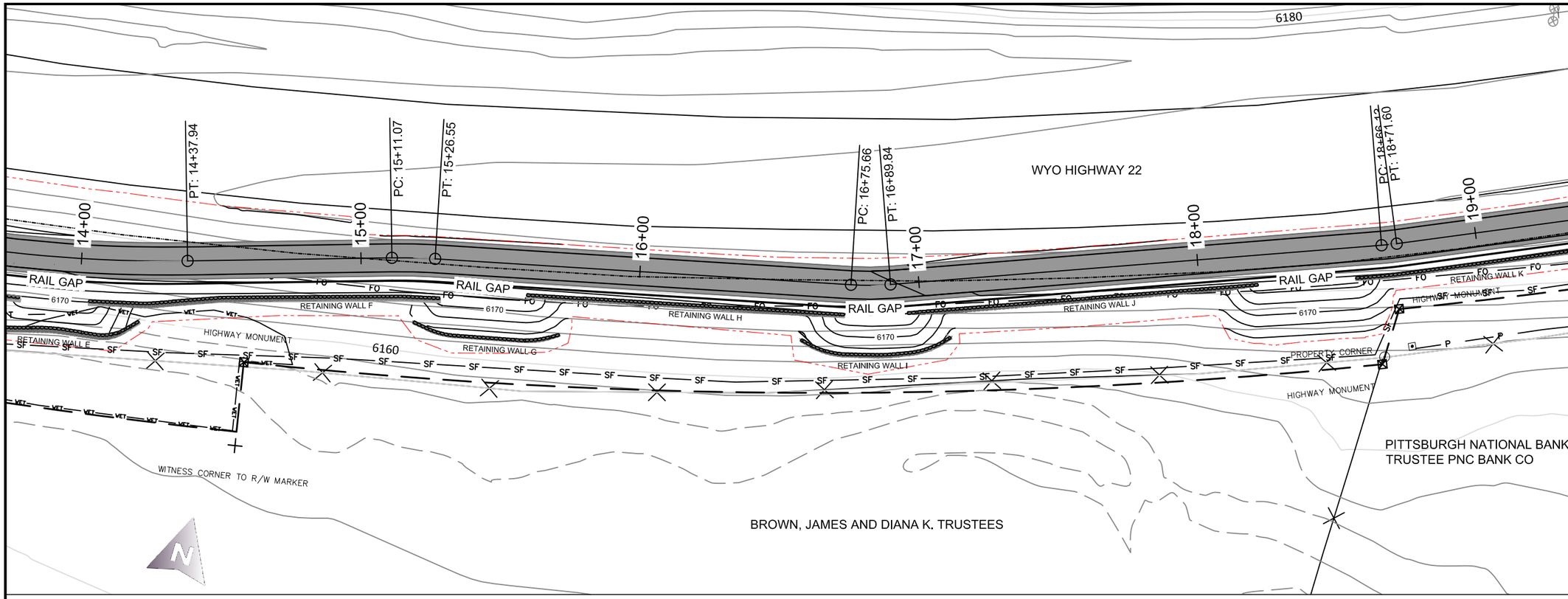

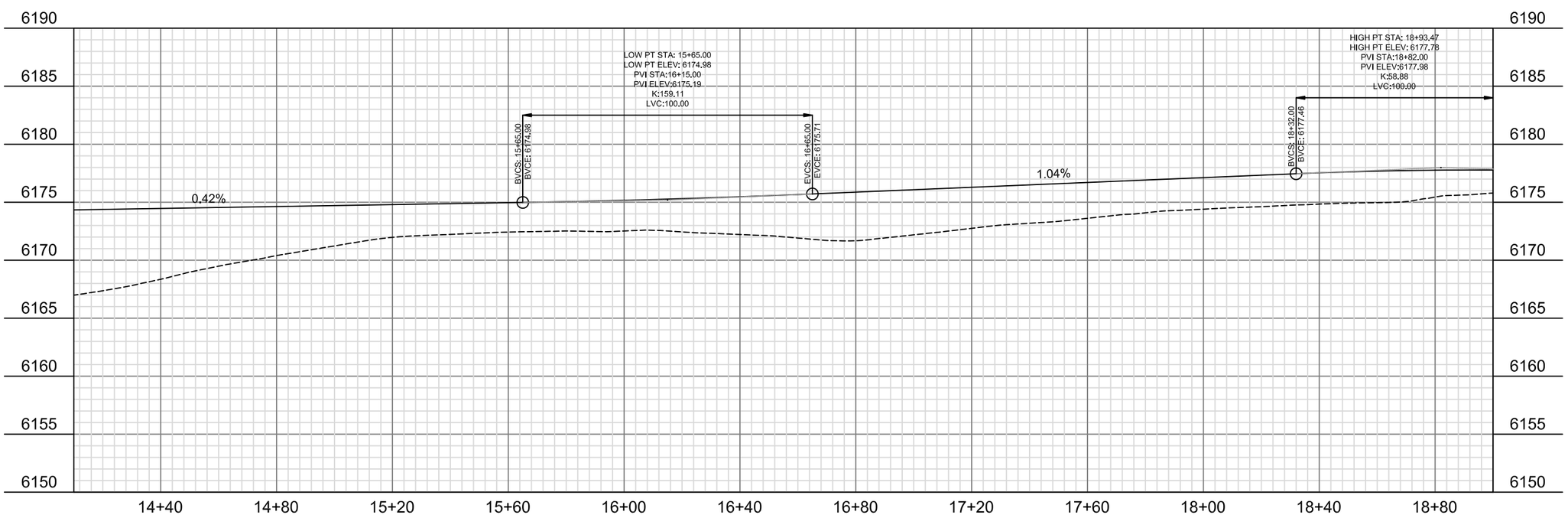

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REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

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PLAN&PROFILE

DRAWING NUMBER:
PP4

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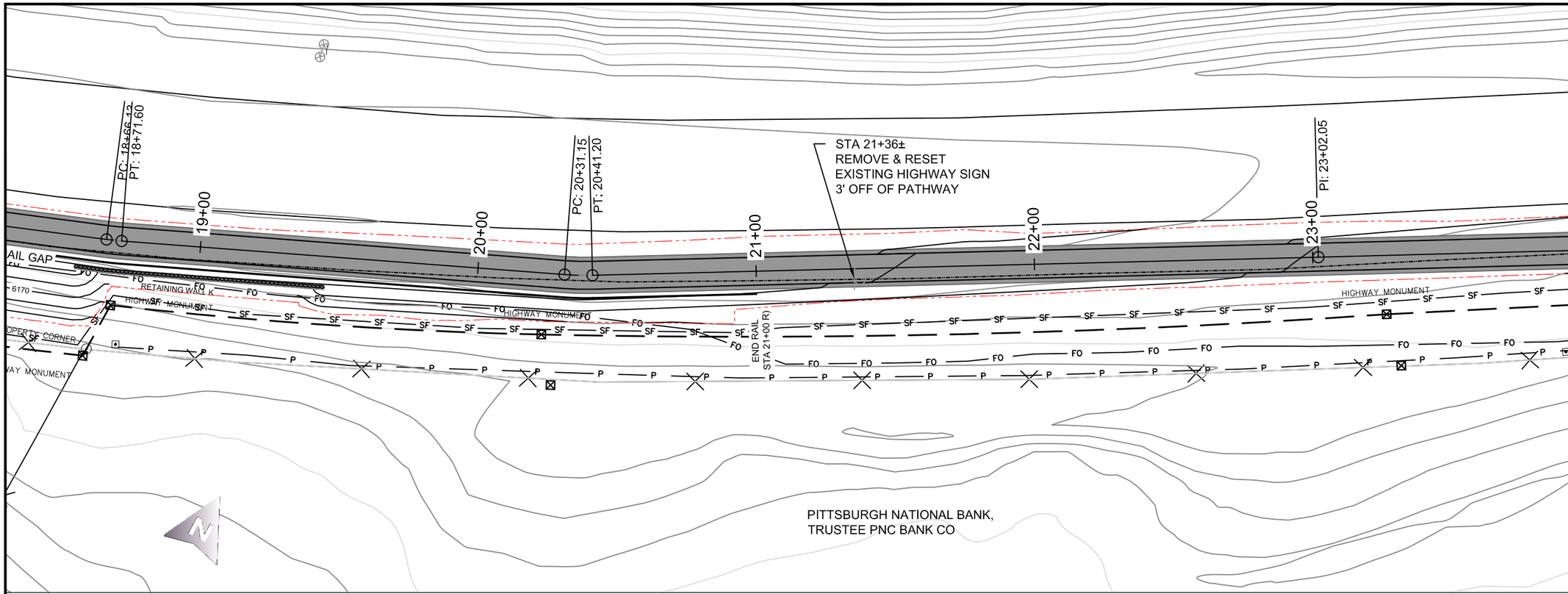

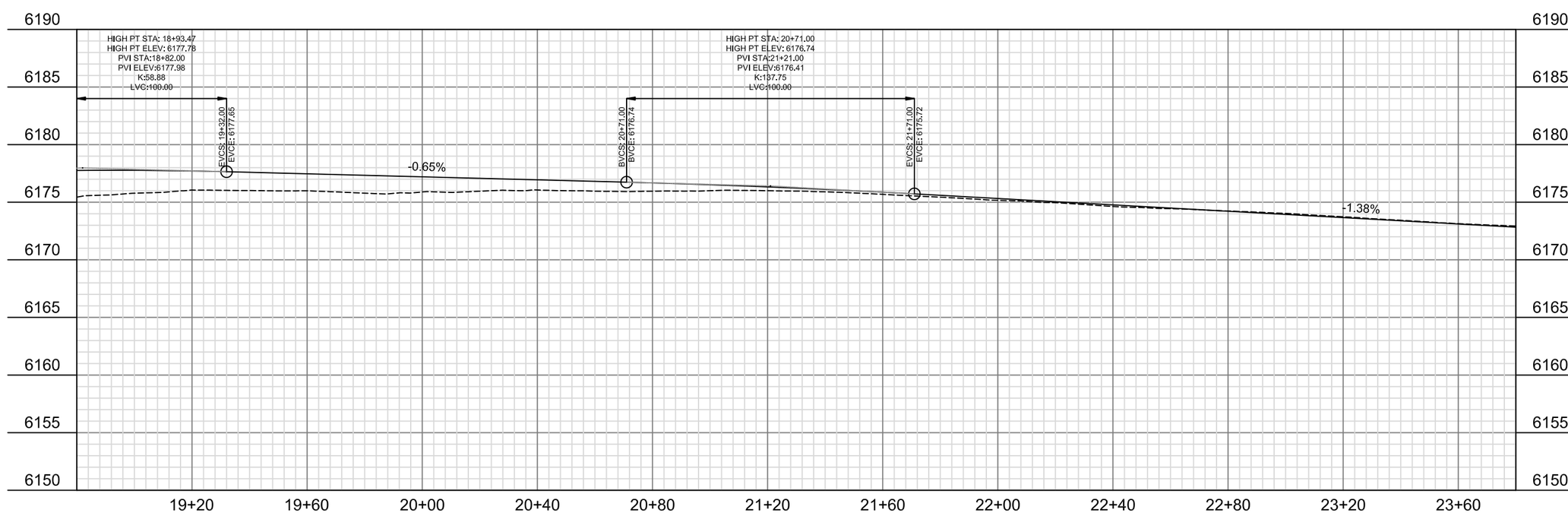

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REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

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PLAN&PROFILE

DRAWING NUMBER:
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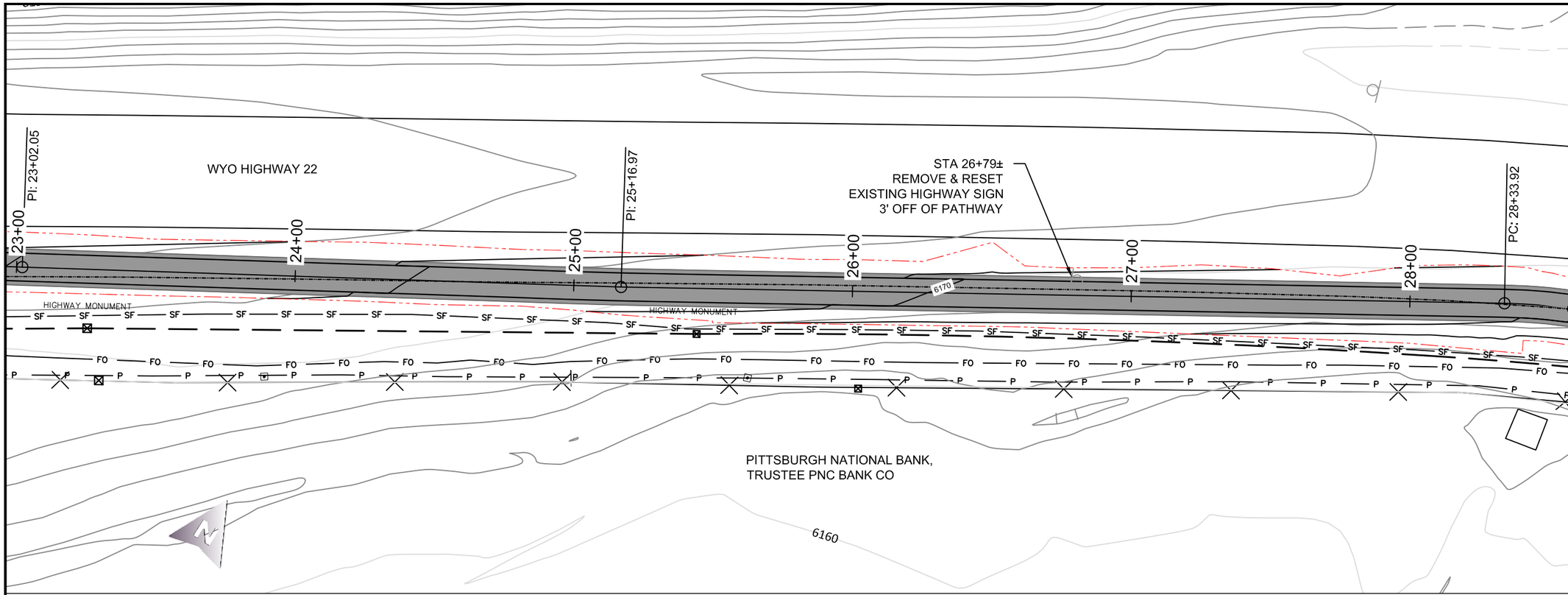

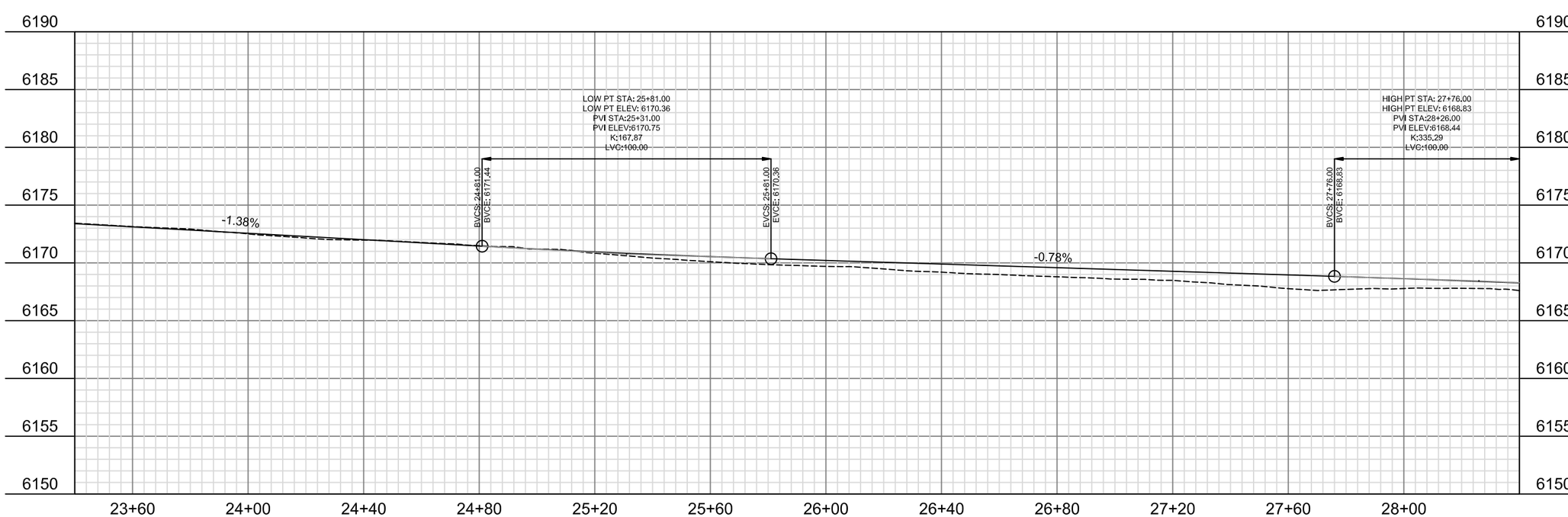

SCALE: (H) 1" = 40' (V) 1" = 10'

TETON COUNTY WYOMING

JACKSON HOLE COMMUNITY PATHWAYS

PATH 22

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP6

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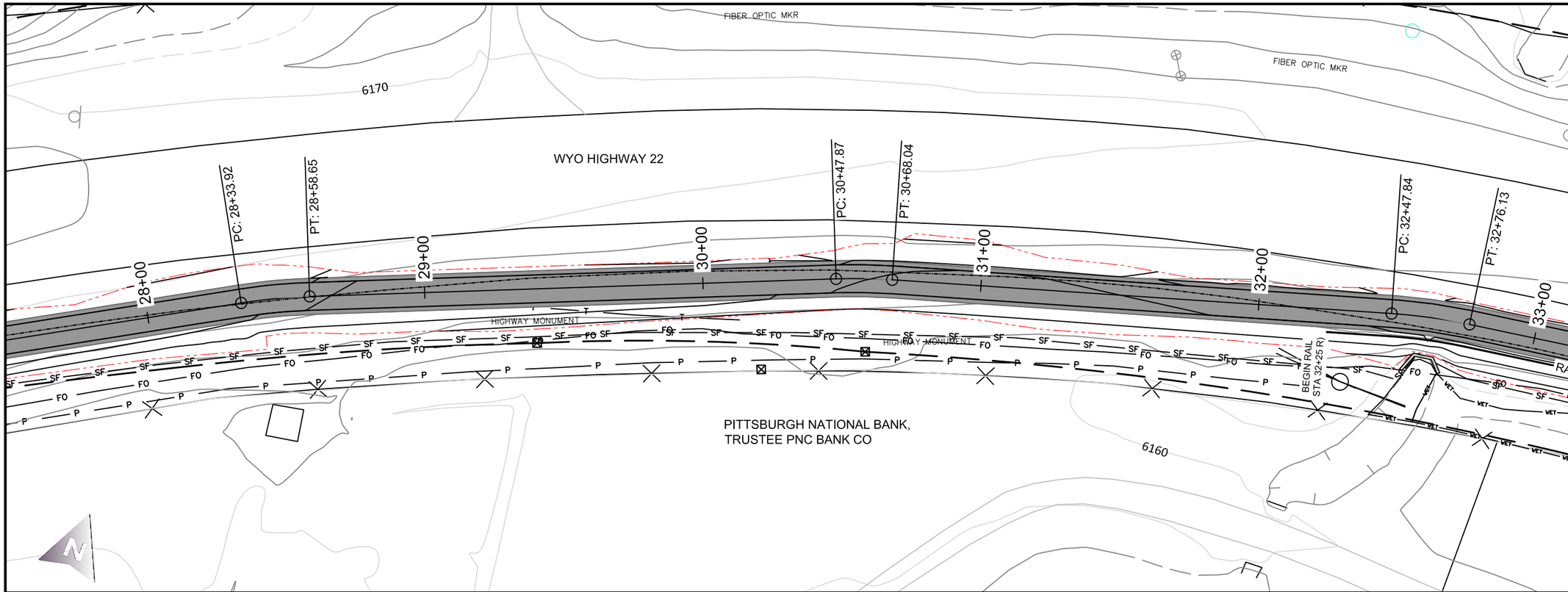

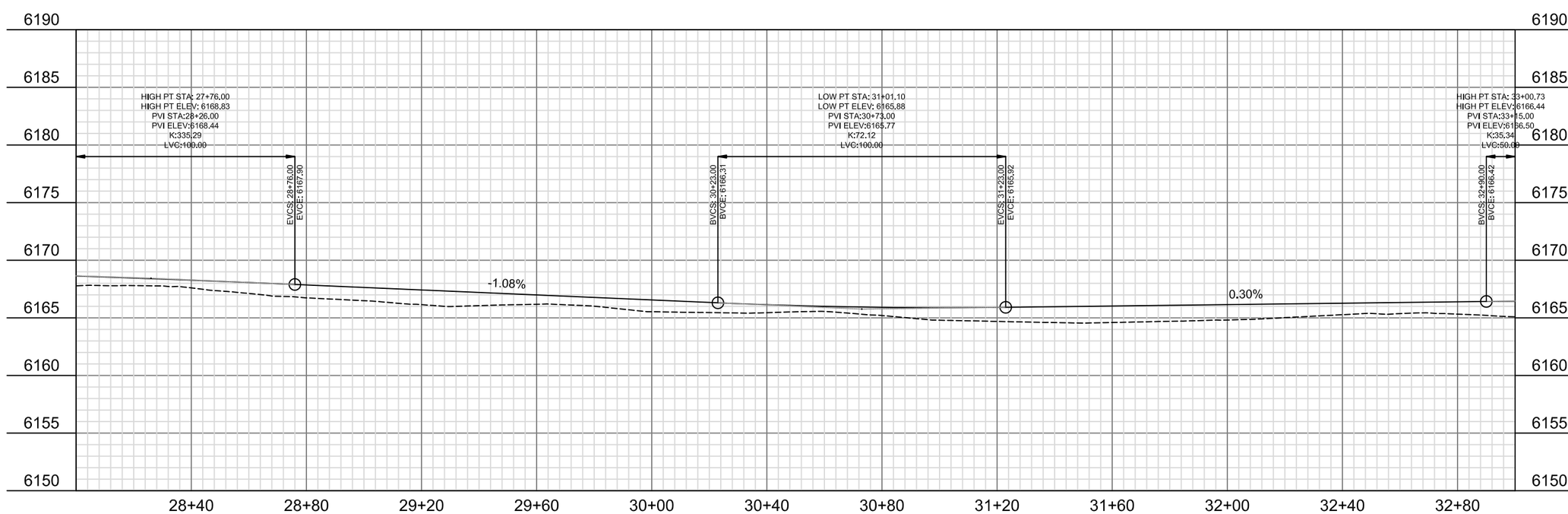

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REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP7

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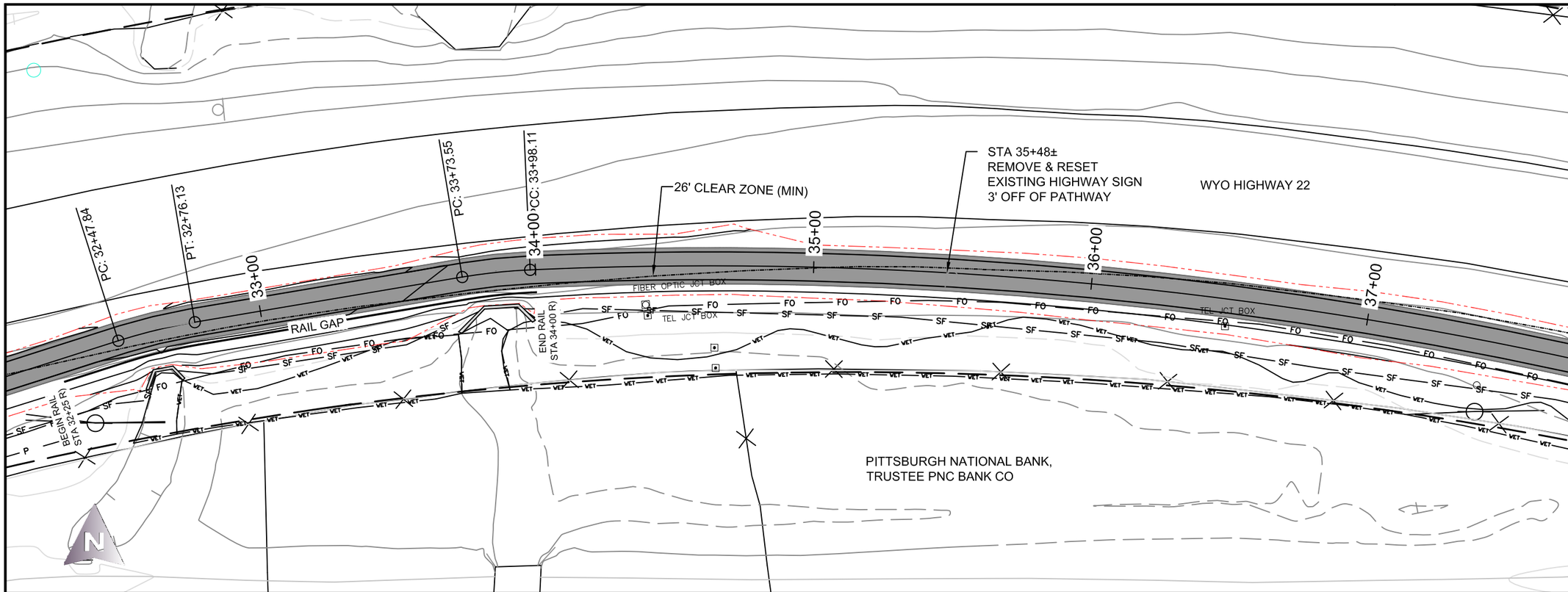

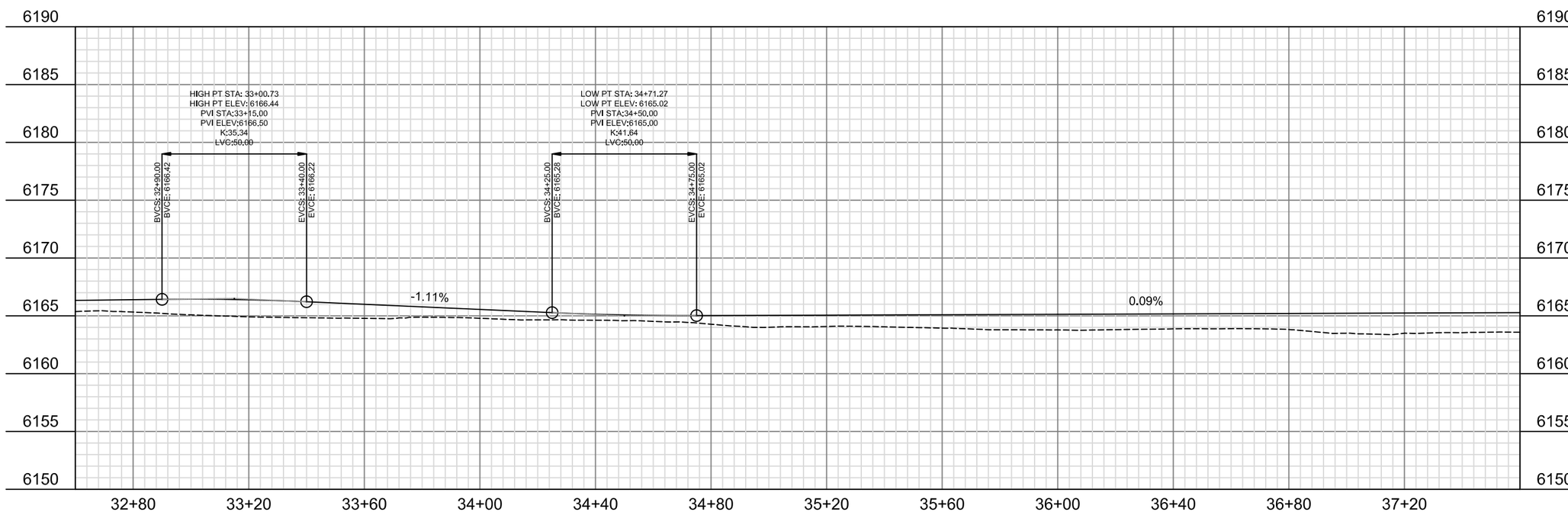

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REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP8

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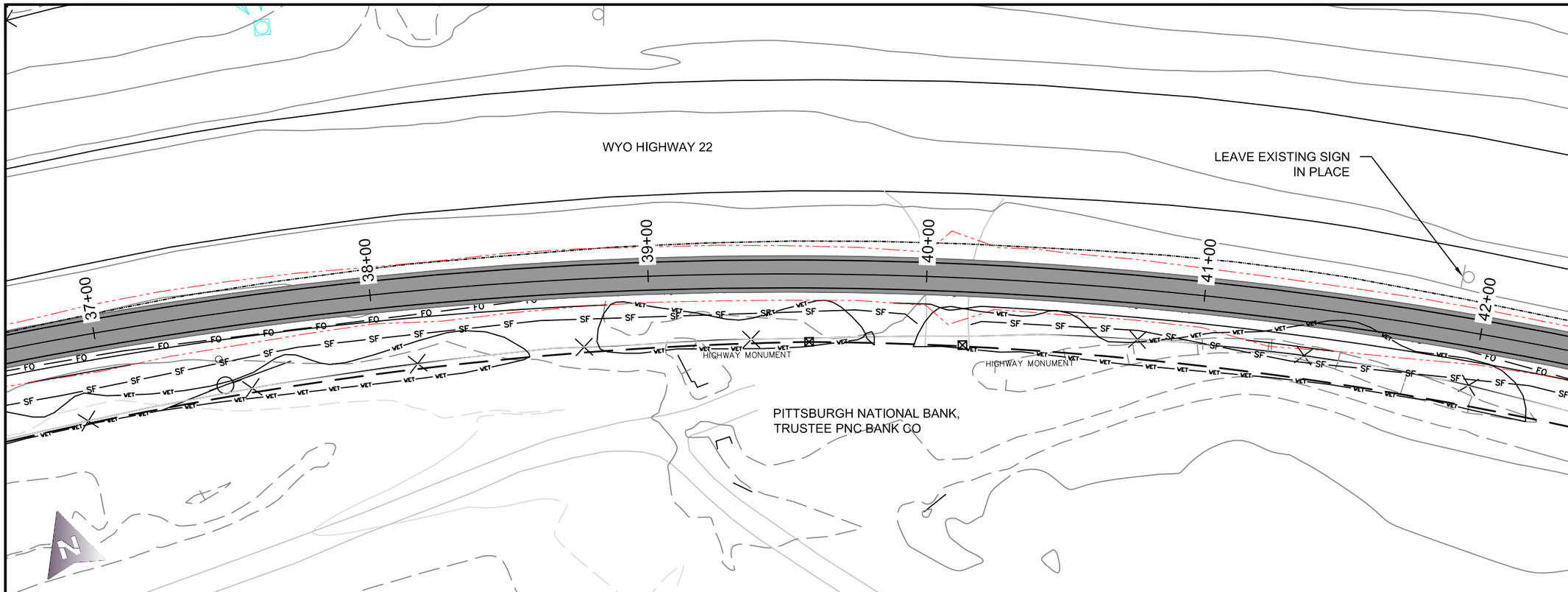
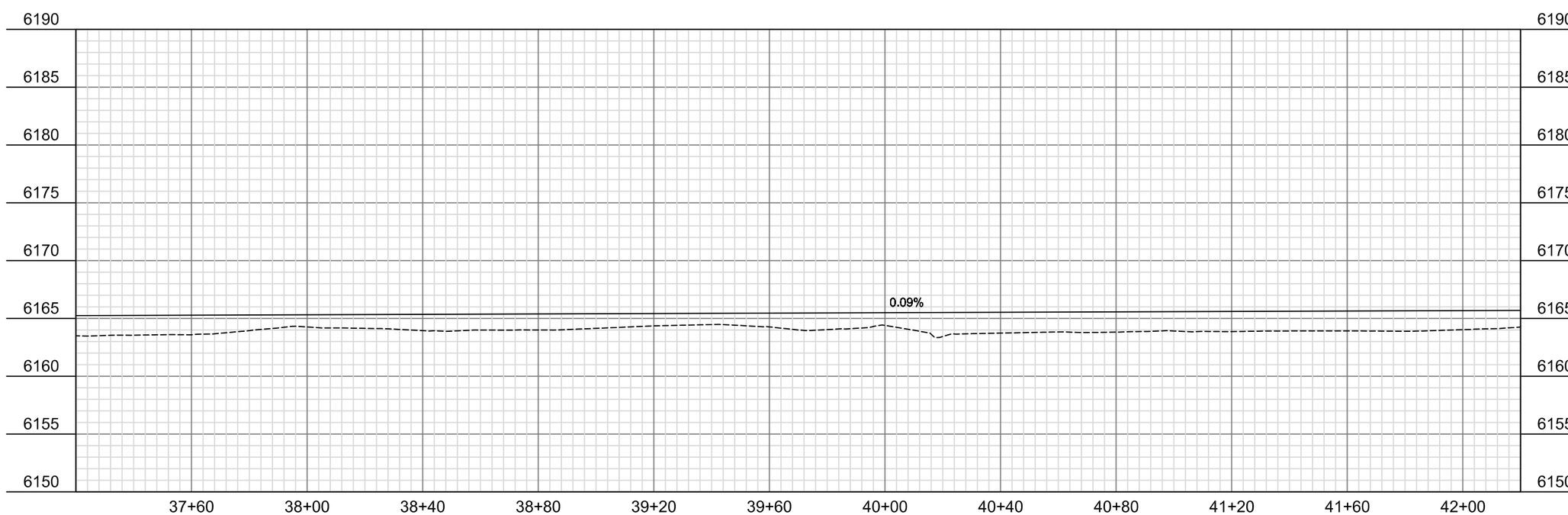




SCALE: (H) 1" = 40' (V) 1" = 10'

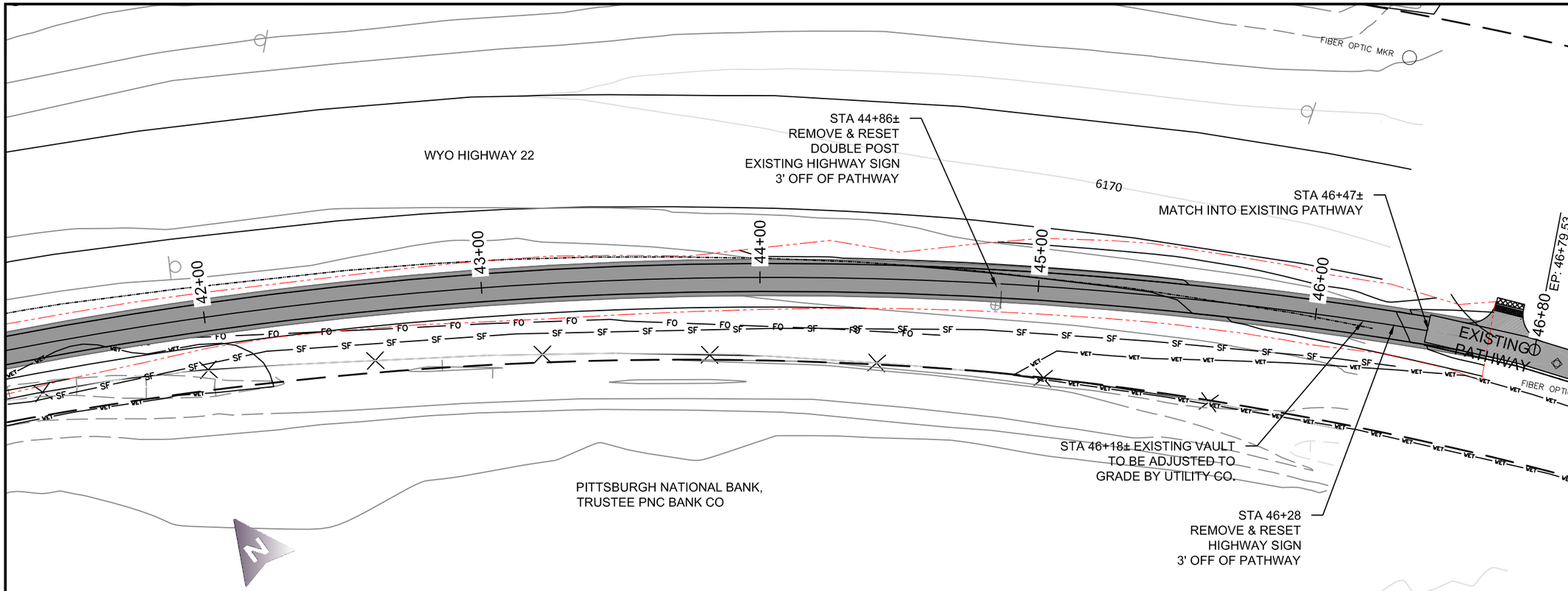
REVISIONS:

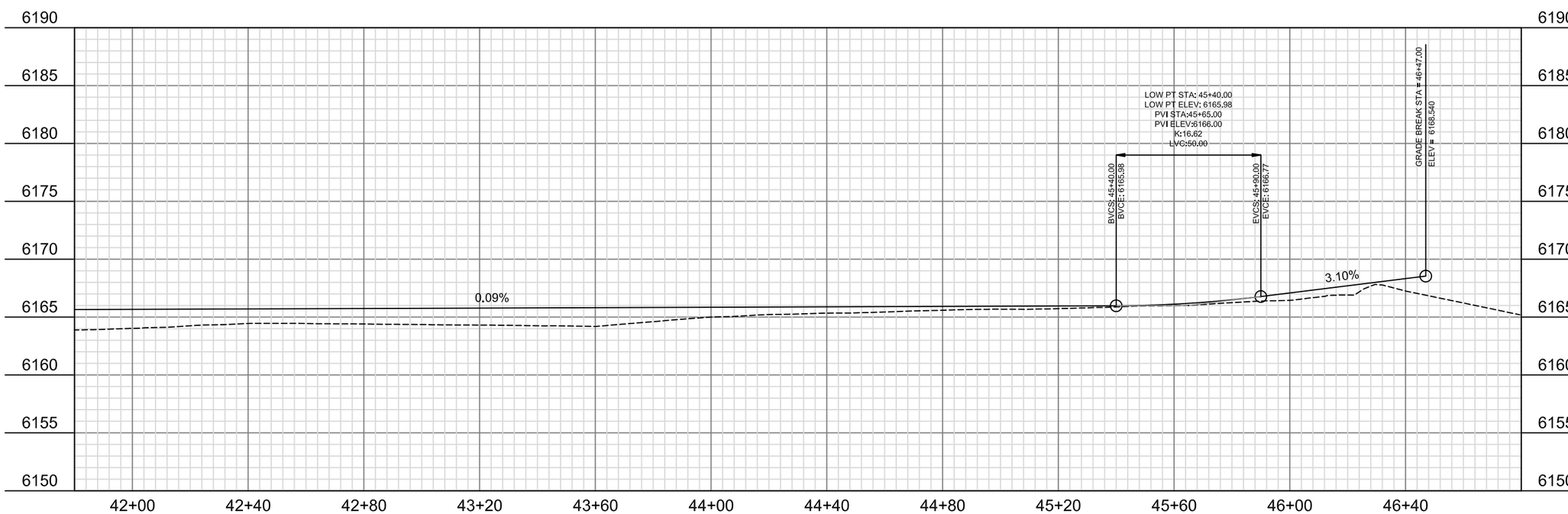
MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP9

Y:\A PROJECTS – Pathways\WY22\MIDDLE\PHASE_2\PLANS\WY-22 PATHWAY_PHASE2_062416.dwg <36+80.00> – Jun 25 2016 01:55:53 pm PLOTTED BY: anmage





SCALE: (H) 1" = 40' (V) 1" = 10'

TETON COUNTY WYOMING

JACKSON HOLE COMMUNITY PATHWAYS
PATH 22

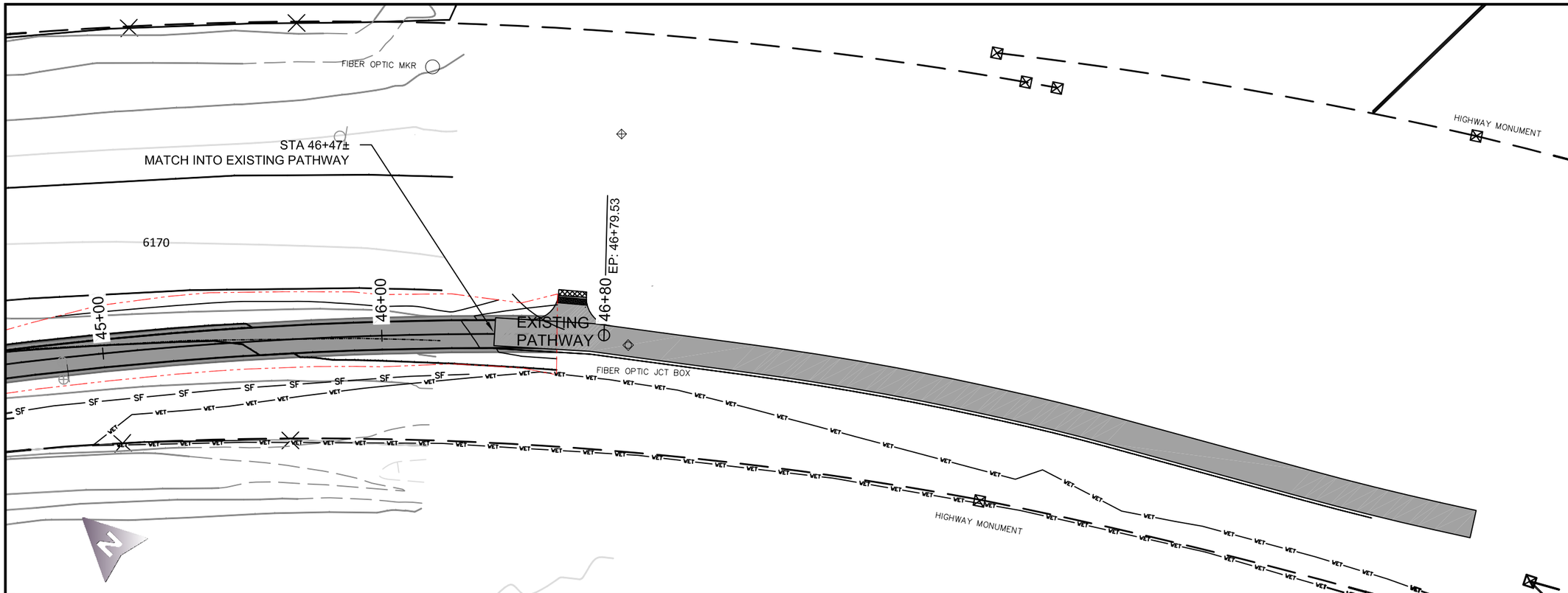
REVISIONS:

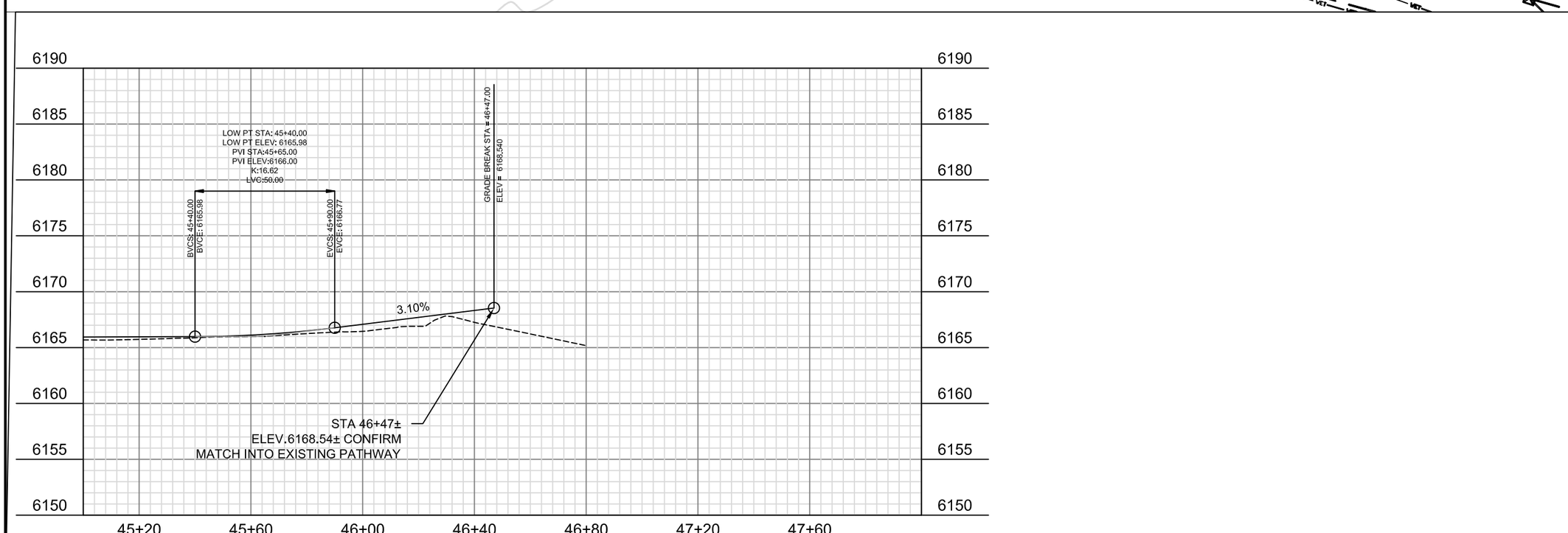
MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP10

Y:\A_PROJECTS – Pathways\WY22\MIDDLE\PHASE_2\PLANS\WY-22 PATHWAY_PHASE2_062416.dwg <41+40.00> – Jun 25 2016 01:56:14 pm PLOTTED BY: aramage





SCALE: (H) 1" = 40' (V) 1" = 10'

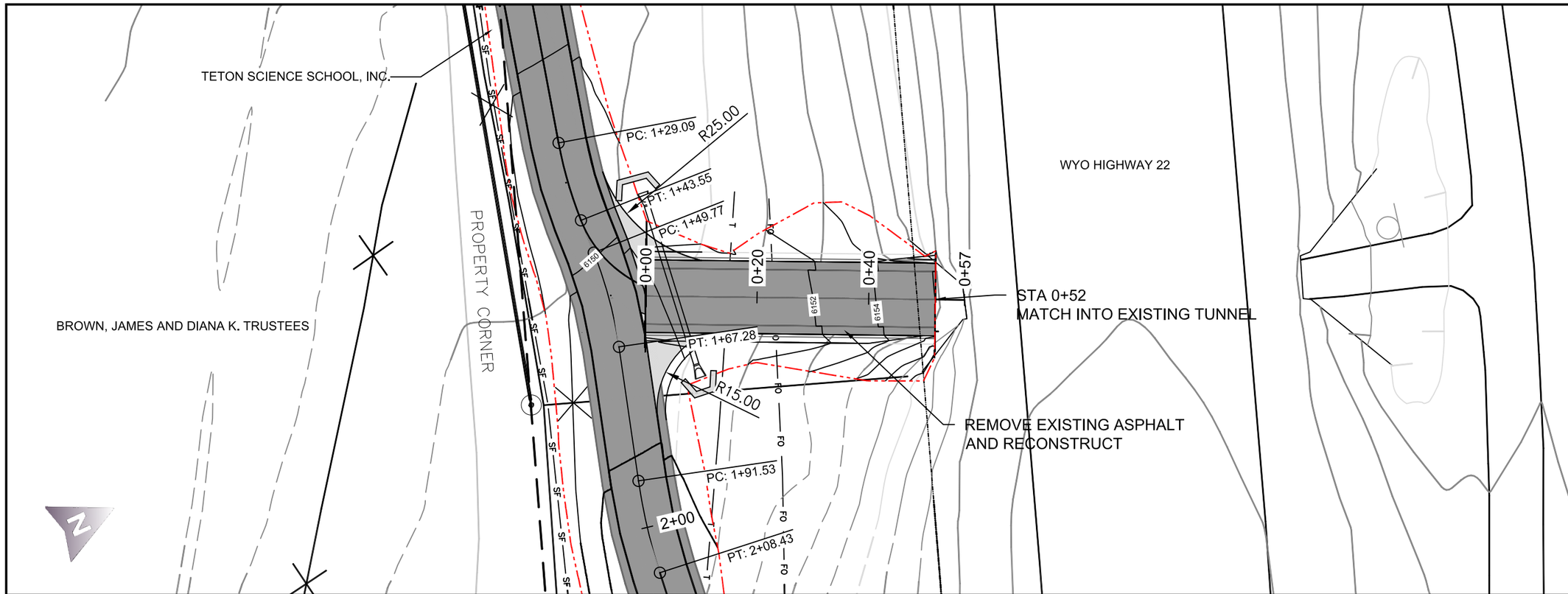
REVISIONS:

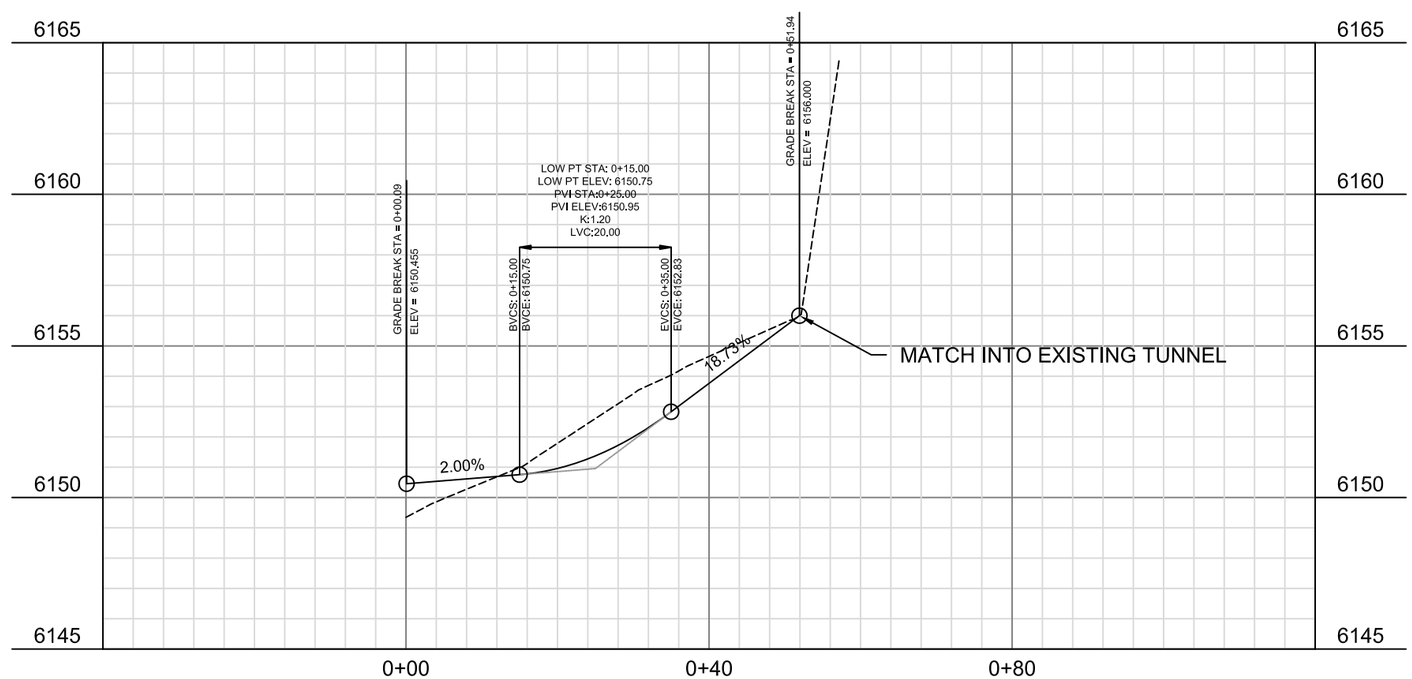
MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP11

Y:\A_PROJECTS – Pathways\WY22\MIDDLE\PHASE_2\PLANS\WY-22 PATHWAY_PHASE2_062416.dwg <46+00.00> – Jun 25 2016 01:56:29 pm PLOTTED BY: aramage





TETON COUNTY WYOMING

JACKSON HOLE COMMUNITY PATHWAYS PATH 22

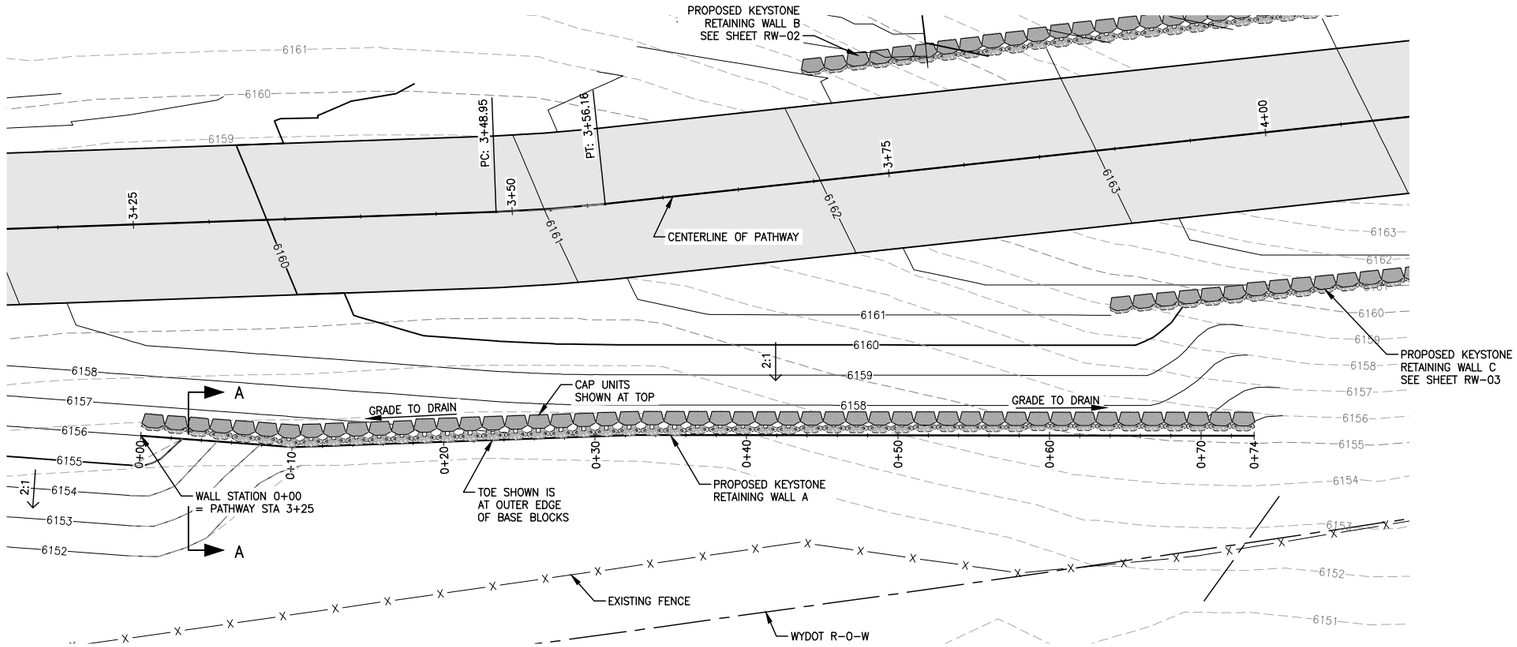
REVISIONS:

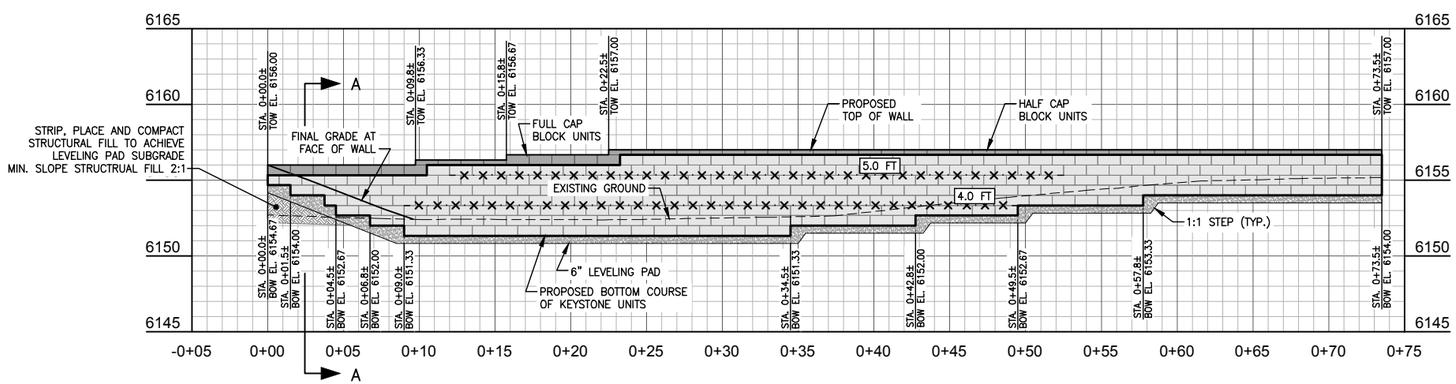
MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP12

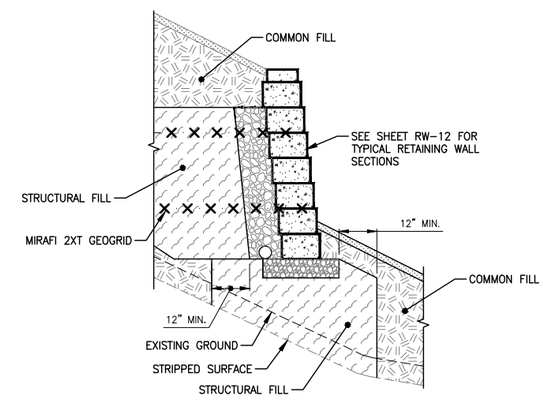
Y:\A. PROJECTS – Pathways\WY22\MIDDLE\PHASE_2\PLANS\WY-22 PATHWAY_PHASE2_062416.dwg <cattle tunnel area> – Jun 25 2016 01:56:56 pm PLOTTED BY: oramage





RETAINING WALL A PROFILE

AREA OF WALL FACE = 310.5 SQ.FT.



TYPICAL SECTION A-A

N.T.S.

GENERAL NOTES:

1. WALLS SHOWN DESIGNED WITH KEYSTONE COMPAC BLOCKS. CAP UNITS ARE COMPAC FULL OR HALF HEIGHT BLOCKS.
2. BASE STEP HEIGHT SHALL NOT BE GREATER THAN 2 BLOCKS. CONSTRUCT BASE STEPS TO MATCH GRADES IN THE FIELD. SEE DETAIL SHEET.
3. MINIMUM BASE UNIT BLOCK EMBEDMENT BELOW FINAL GRADE IS 8 INCHES. FIELD FIT BASE OF WALL ELEVATION AND FINAL GRADING TO ENSURE EMBEDMENT IS ACHIEVED.
4. GEOGRID LENGTH SHOWN IS MEASURED FROM CONNECTION POINT AT BLOCK FACE. SEE DETAIL SHEET.

GEOGRID KEY:

MIRAFI 2XT GEOGRID —×·×·×·×·×·×·×·×·×—

GEOGRID LENGTH 4.5 FT →

		REV.
DATE	6/14/2016	
SURVEYED		–
ENGINEERED		PG
DRAWN		BJG
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

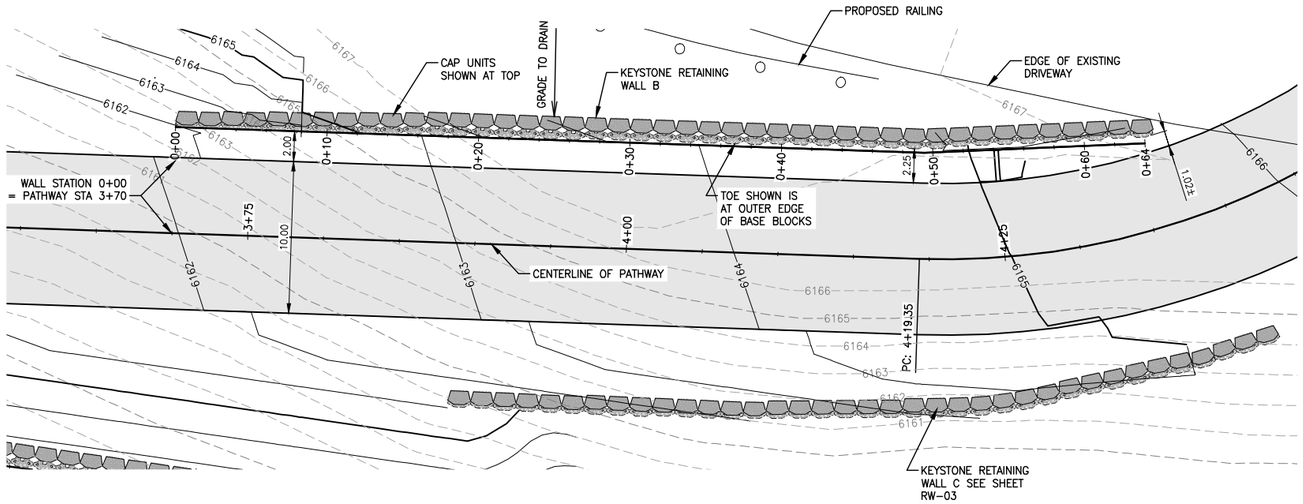
DRAWING TITLE
RETAINING WALL A
PLAN AND PROFILE
STA 3+25 TO 4+00

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO RW-01

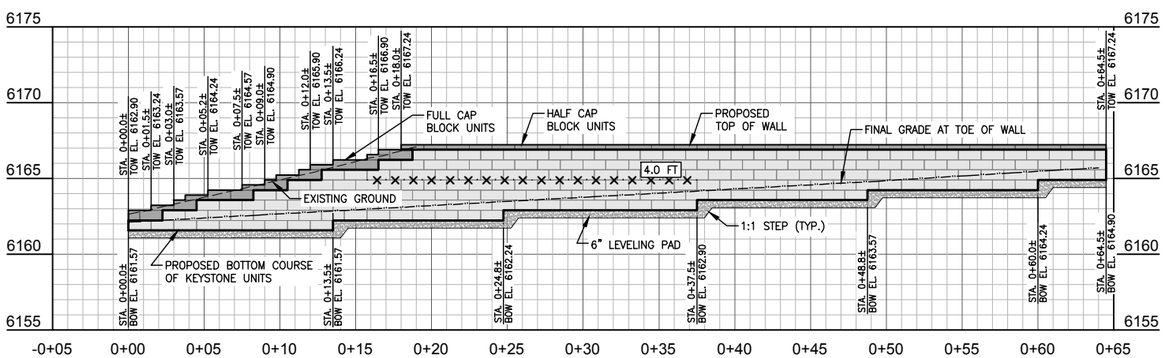
JOB NO 15-053-02

S:\Proj2015\053-01 (Path 22 Retaining Wall Design)\Drawings\LAYOUT\RETAINING WALL A.dwg (PAPER\00 - 0-74.50) - Jun 14 2016 10:20:19 am PLOTTED BY: green



0 5 10

SCALES: (11x17)
1"=10' HOR.
1"=10' VER.



RETAINING WALL B PROFILE

AREA OF WALL FACE = 231.25 SQ.FT.

GENERAL NOTES:

1. WALLS SHOWN DESIGNED WITH KEYSTONE COMPAC BLOCKS. CAP UNITS ARE COMPAC FULL OR HALF HEIGHT BLOCKS.
2. BASE STEP HEIGHT SHALL NOT BE GREATER THAN 2 BLOCKS. CONSTRUCT BASE STEPS TO MATCH GRADES IN THE FIELD. SEE DETAIL SHEET.
3. MINIMUM BASE UNIT BLOCK EMBEDMENT BELOW FINAL GRADE IS 8 INCHES. FIELD FIT BASE OF WALL ELEVATION AND FINAL GRADING TO ENSURE EMBEDMENT IS ACHIEVED.
4. GEOGRID LENGTH SHOWN IS MEASURED FROM CONNECTION POINT AT BLOCK FACE. SEE DETAIL SHEET.
5. STRUCTURAL FILL PLACED TO ACHIEVE LEVELING COURSE GRADE SHALL HAVE A MAXIMUM SLOPE OF 1.5(H):1(V)

GEOGRID KEY:

MIRAFI 2XT GEOGRID —×·×·×·×·×·×·×·×·×—

GEOGRID LENGTH 4.5 FT →

DATE	6/14/2016
SURVEYED	-
ENGINEERED	PG
DRAWN	BJG
CHECKED	
APPROVED	

REV.

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

DRAWING TITLE
RETAINING WALL B
PLAN AND PROFILE
STA 3+70 TO 4+35

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO
RW-02

JOB NO
15-053-02

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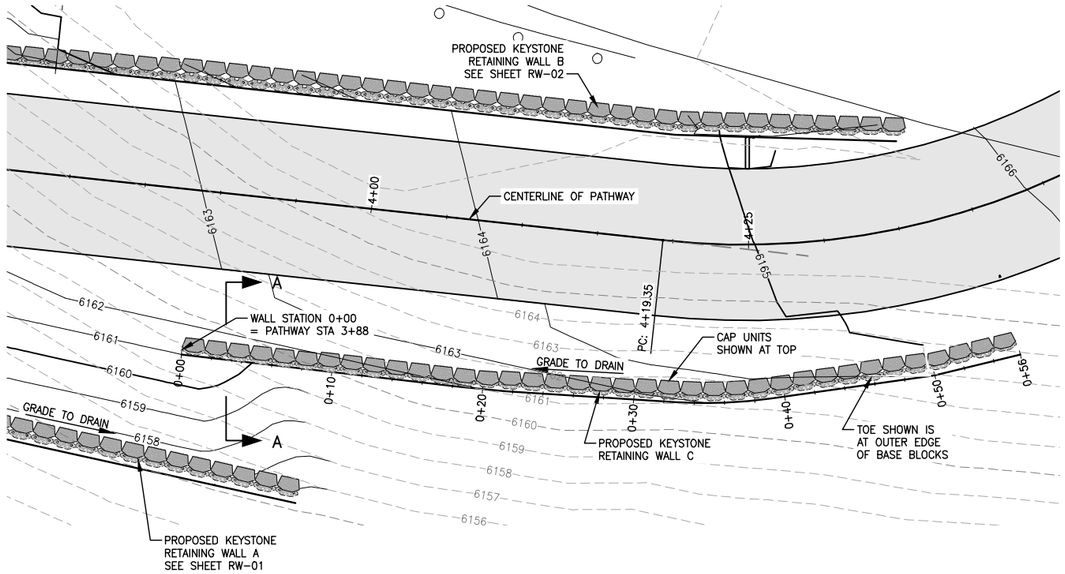
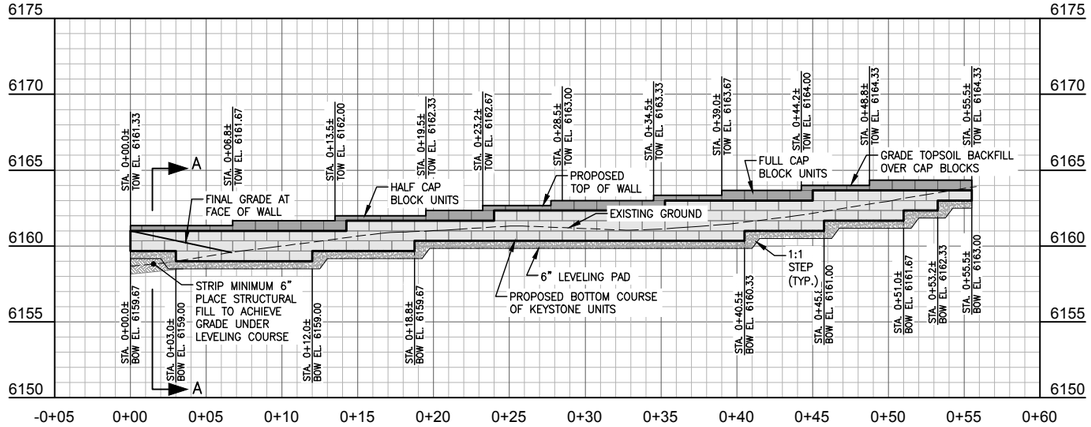


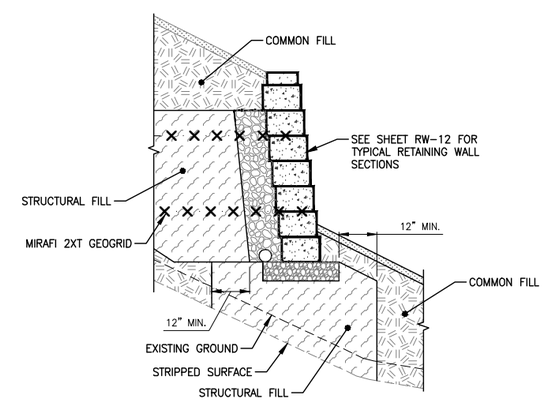
0 5 10

SCALES: (11x17)
1"=10' HOR.
1"=10' VER.



RETAINING WALL C PROFILE

AREA OF WALL FACE = 133.75 SQ.FT.



TYPICAL SECTION A-A

N.T.S.

GENERAL NOTES:

1. WALLS SHOWN DESIGNED WITH KEYSTONE COMPAC BLOCKS. CAP UNITS ARE COMPAC FULL OR HALF HEIGHT BLOCKS.
2. BASE STEP HEIGHT SHALL NOT BE GREATER THAN 2 BLOCKS. CONSTRUCT BASE STEPS TO MATCH GRADES IN THE FIELD. SEE DETAIL SHEET.
3. MINIMUM BASE UNIT BLOCK EMBEDMENT BELOW FINAL GRADE IS 8 INCHES. FIELD FIT BASE OF WALL ELEVATION AND FINAL GRADING TO ENSURE EMBEDMENT IS ACHIEVED.
4. GEOGRID LENGTH SHOWN IS MEASURED FROM CONNECTION POINT AT BLOCK FACE. SEE DETAIL SHEET.
5. STRUCTURAL FILL PLACED TO ACHIEVE LEVELING COURSE GRADE SHALL HAVE A MAXIMUM SLOPE OF 1.5(H):1(V)

GEOGRID KEY:

MIRAFI 2XT GEOGRID —×·×·×·×·×·×·×·×·×—

GEOGRID LENGTH 4.5 FT →

		REV.
DATE	6/14/2016	
SURVEYED	-	
ENGINEERED	PG	
DRAWN	BJG	
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

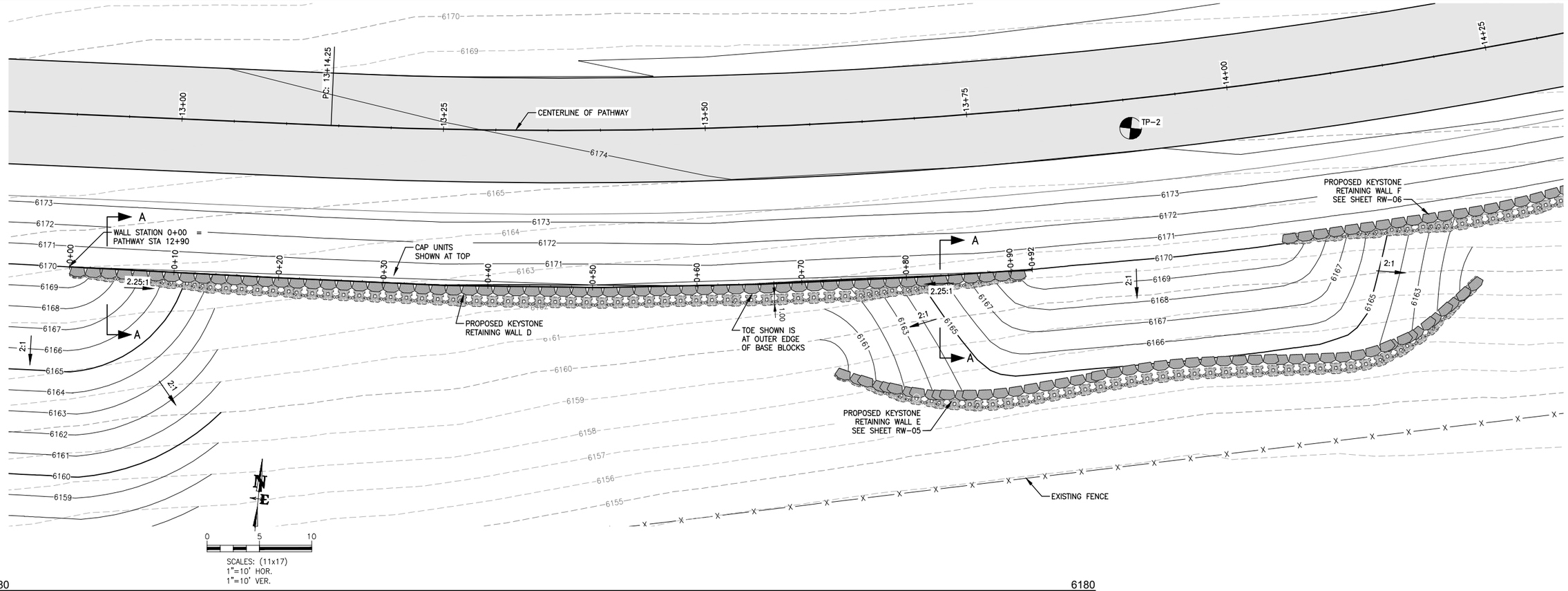
DRAWING TITLE
RETAINING WALL C
PLAN AND PROFILE

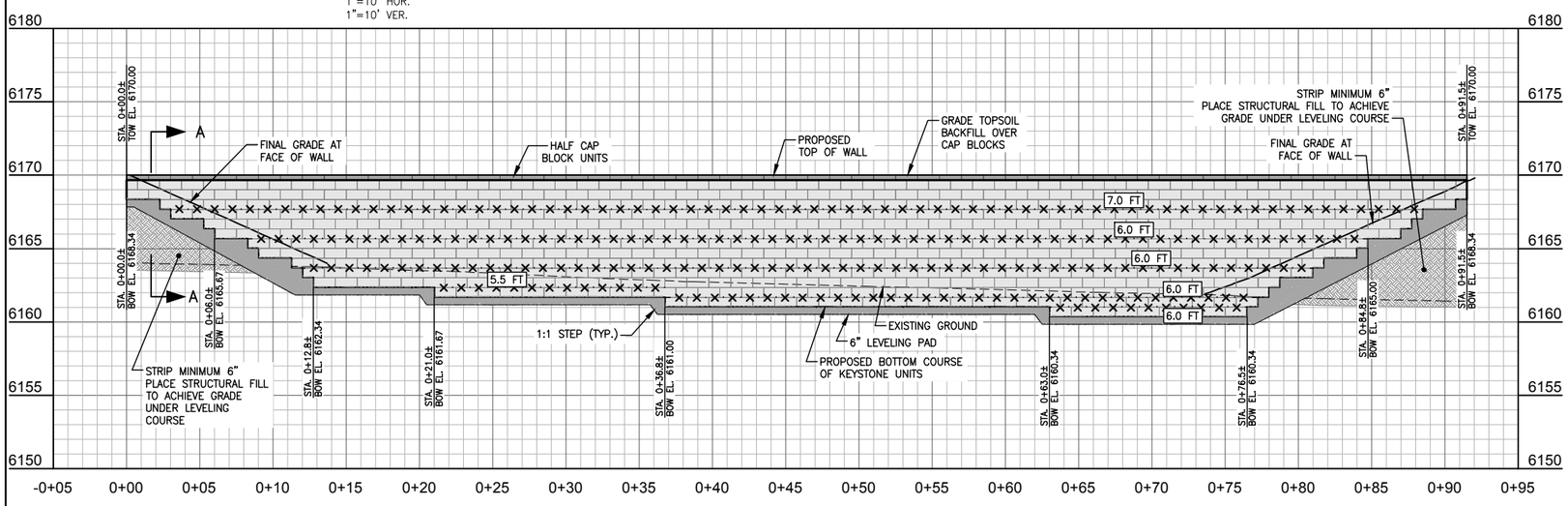
JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO RW-03

JOB NO 15-053-02

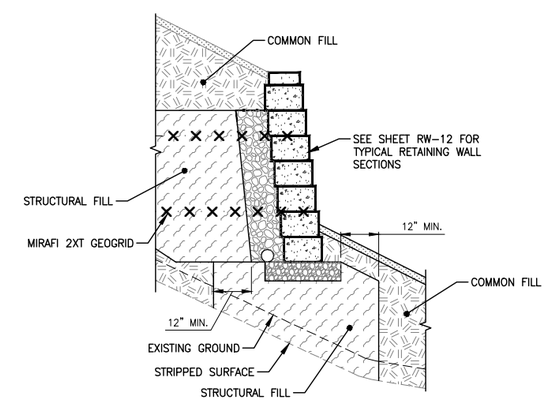
S:\Proj2015\053-01 (Path 22 Retaining Wall Design)\Drawings\LAYOUT\RETAINING WALL.C.dwg (PAP3=88.00 - 44x33) - Jun 14 2016 10:32:39 am PLOTTED BY: green





RETAINING WALL D PROFILE

AREA OF WALL FACE = 689.5 SQ.FT.



TYPICAL SECTION A-A

N.T.S.

GENERAL NOTES:

1. WALLS SHOWN DESIGNED WITH KEYSTONE COMPAC BLOCKS. CAP UNITS ARE COMPAC FULL OR HALF HEIGHT BLOCKS.
2. BASE STEP HEIGHT SHALL NOT BE GREATER THAN 2 BLOCKS. CONSTRUCT BASE STEPS TO MATCH GRADES IN THE FIELD. SEE DETAIL SHEET.
3. MINIMUM BASE UNIT BLOCK EMBEDMENT BELOW FINAL GRADE IS 8 INCHES. FIELD FIT BASE OF WALL ELEVATION AND FINAL GRADING TO ENSURE EMBEDMENT IS ACHIEVED.
4. GEOGRID LENGTH SHOWN IS MEASURED FROM CONNECTION POINT AT BLOCK FACE. SEE DETAIL SHEET.
5. STRUCTURAL FILL PLACED TO ACHIEVE LEVELING COURSE GRADE SHALL HAVE A MAXIMUM SLOPE OF 1.5(H):1(V)

GEOGRID KEY:

MIRAFI 2XT GEOGRID —×·×·×·×·×·×·×·×·×—

GEOGRID LENGTH 4.5 FT →

		REV.
DATE	6/14/2016	
SURVEYED		–
ENGINEERED		PG
DRAWN		BJG
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

DRAWING TITLE
RETAINING WALL D
PLAN AND PROFILE

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO RW-04

JOB NO 15-053-02

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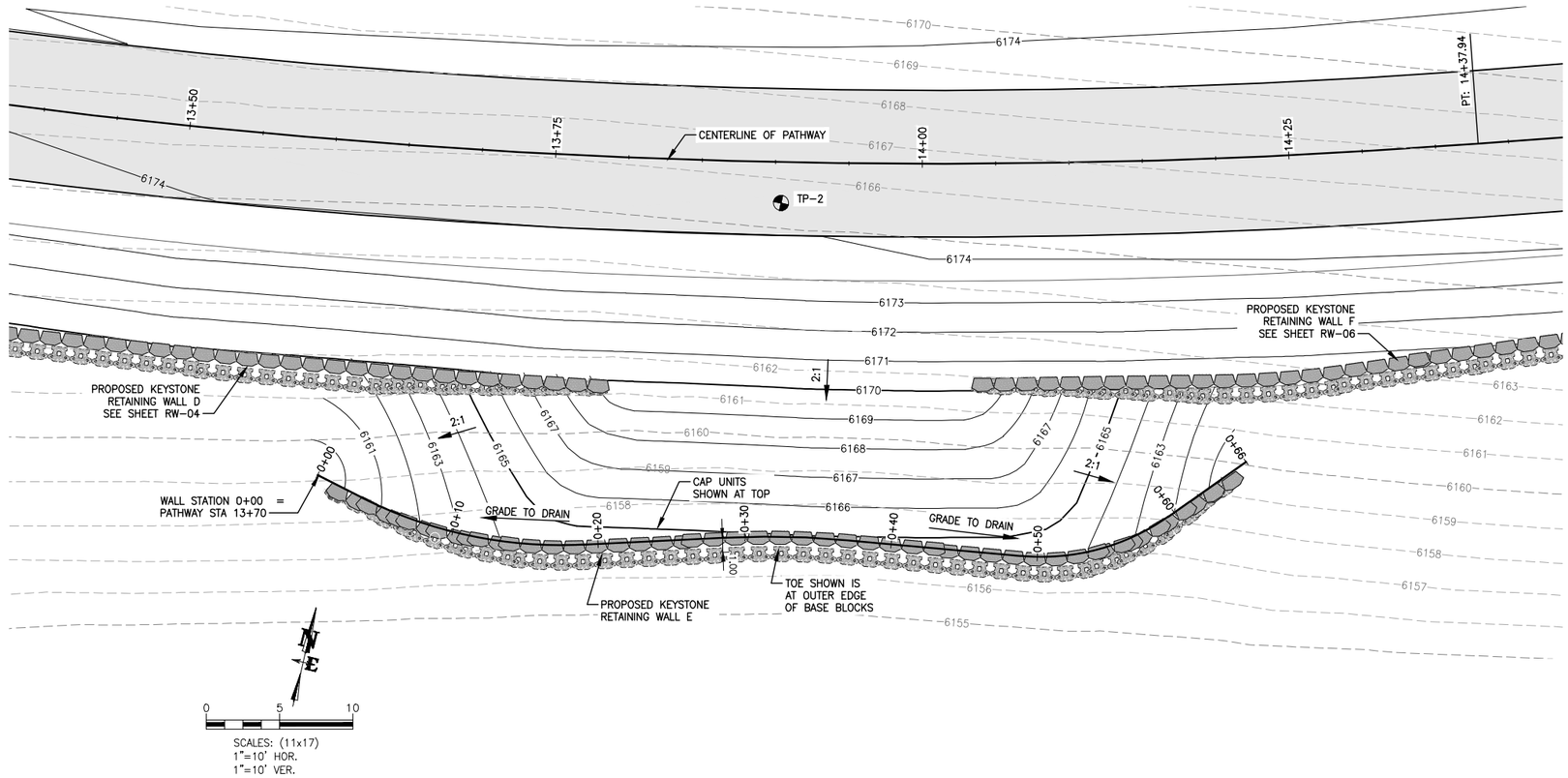

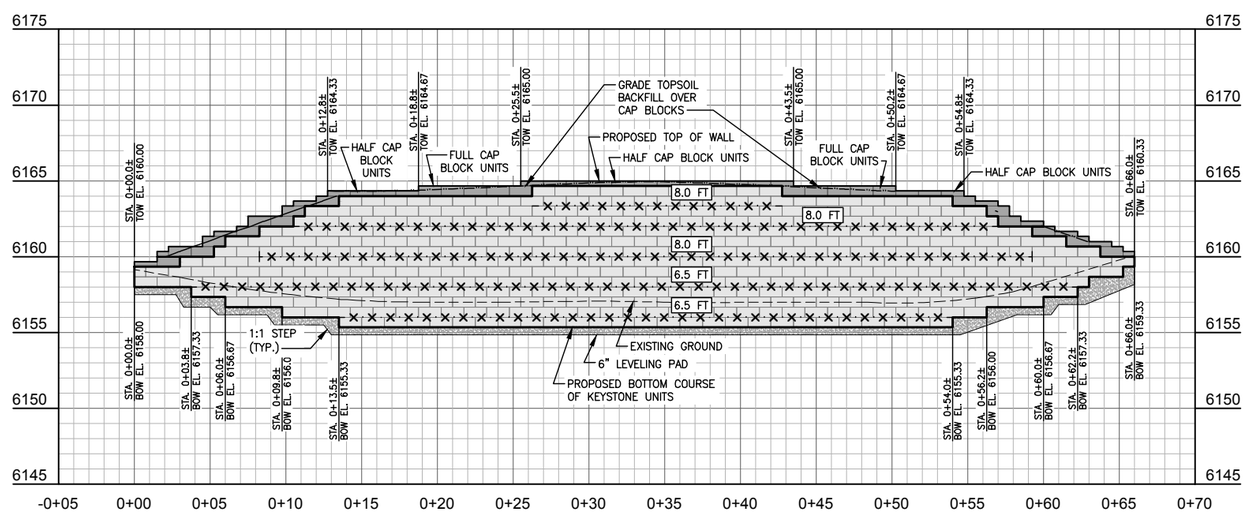

RETAINING WALL E PROFILE

AREA OF WALL FACE = 508.0 SQ.FT.

DATE	5/27/2016
SURVEYED	–
ENGINEERED	PG
DRAWN	BJG
CHECKED	
APPROVED	
REV.	

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

DRAWING TITLE
RETAINING WALL E
PLAN AND PROFILE

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO RW-05

JOB NO 15-053-02

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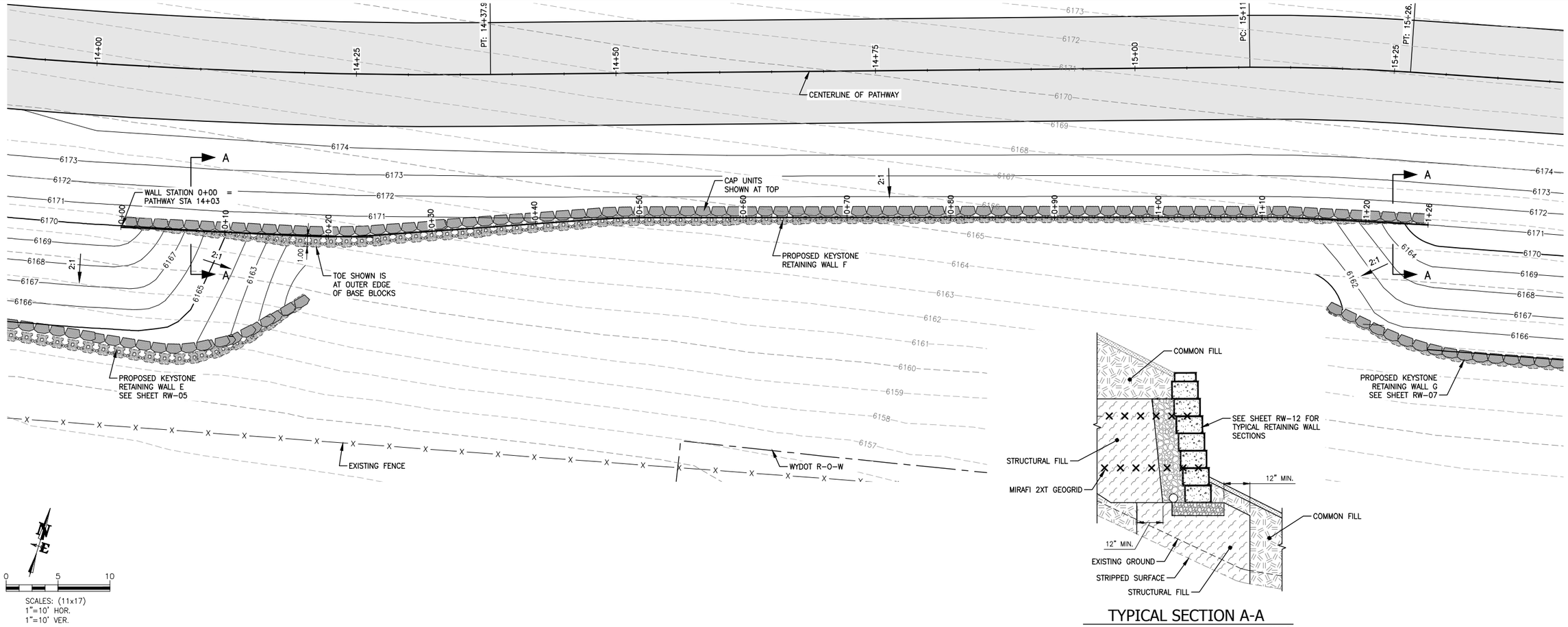
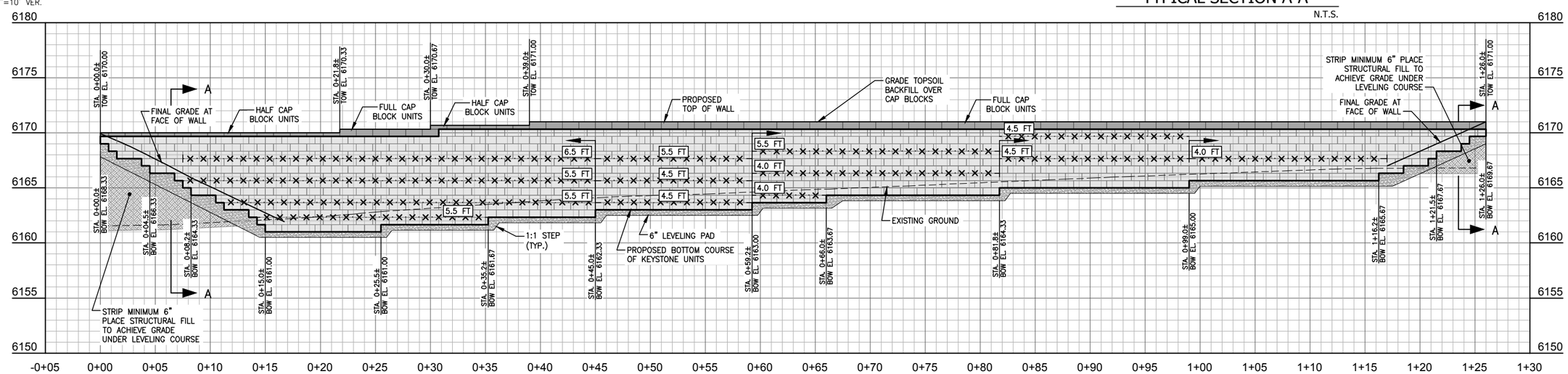


TYPICAL SECTION A-A

N.T.S.



RETAINING WALL F PROFILE

AREA OF WALL FACE = 830.75 SQ.FT.

DATE	6/14/2016
SURVEYED	–
ENGINEERED	PG
DRAWN	BJG
CHECKED	
APPROVED	

REV.

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

DRAWING TITLE
RETAINING WALL F
PLAN AND PROFILE

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO
RW-06

JOB NO
15-053-02

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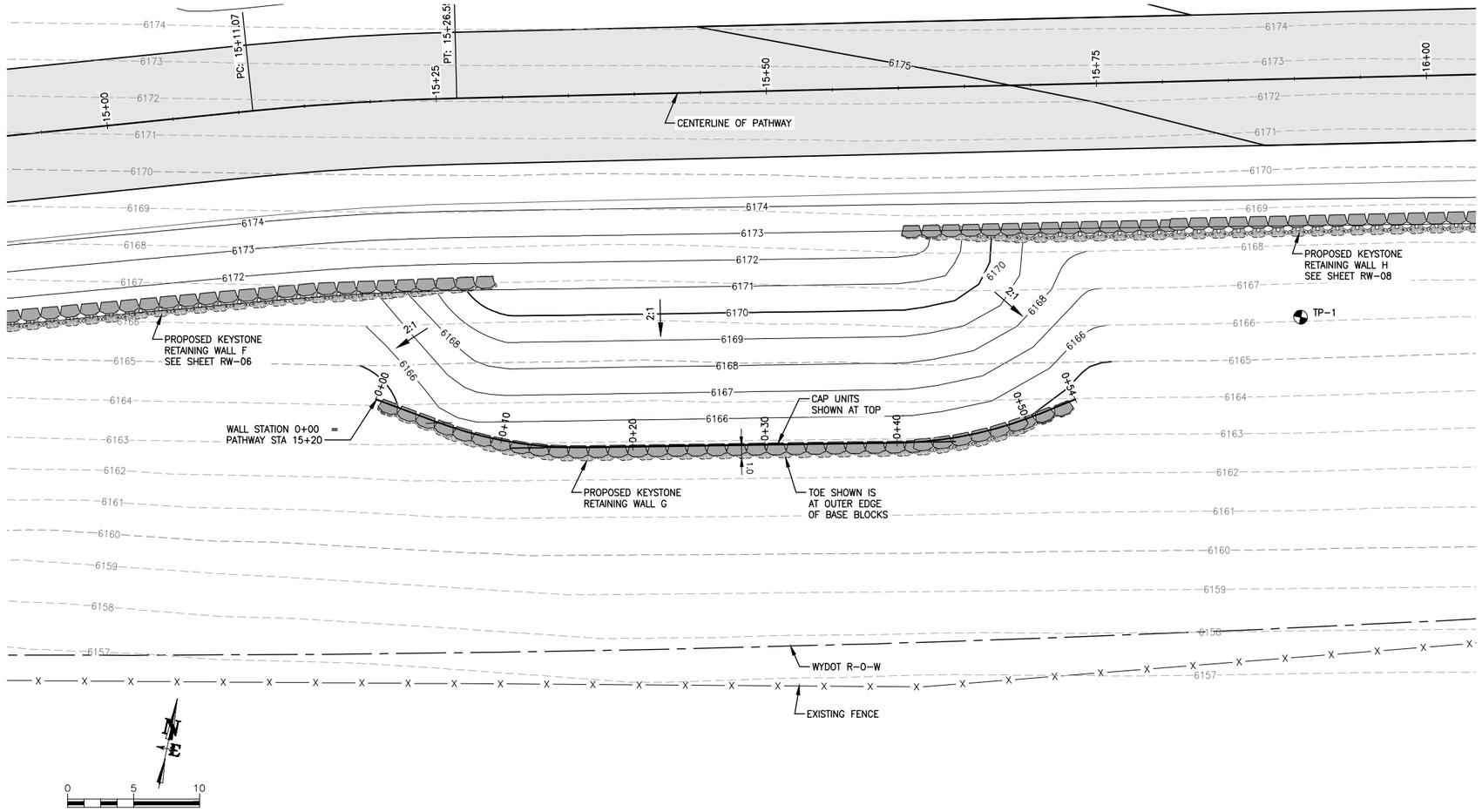

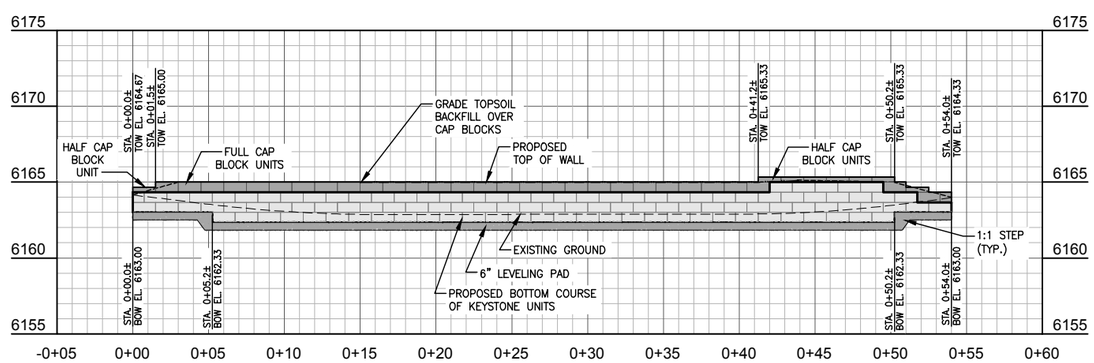

RETAINING WALL G PROFILE

AREA OF WALL FACE = 139.0 SQ.FT.

DATE	5/4/2016	REV.
SURVEYED		–
ENGINEERED		PG
DRAWN		BJG
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

DRAWING TITLE
RETAINING WALL G
PLAN AND PROFILE

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO
RW-07

JOB NO
15-053-02

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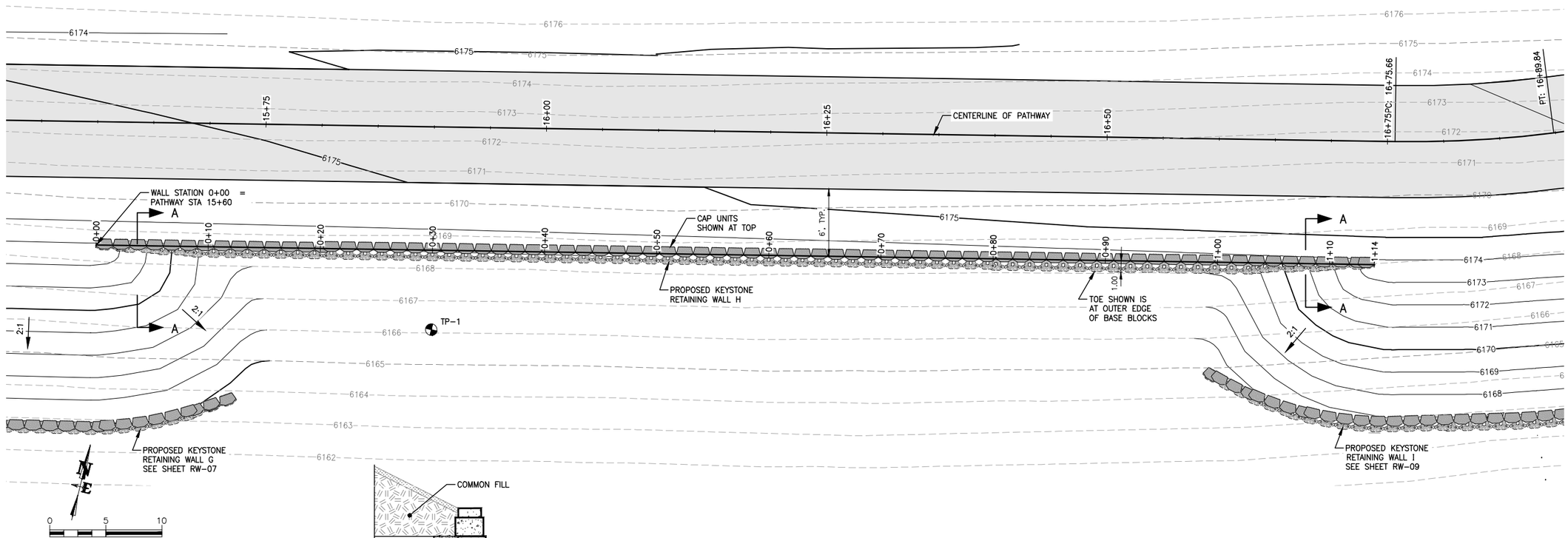
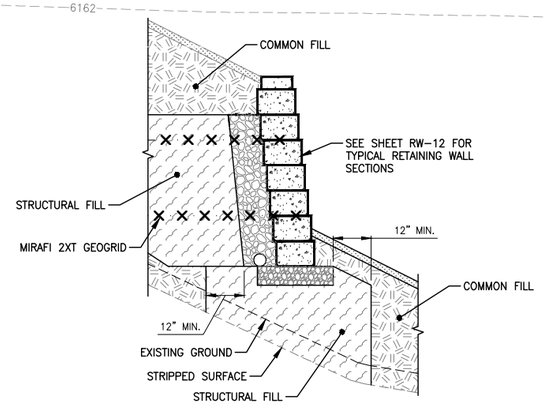
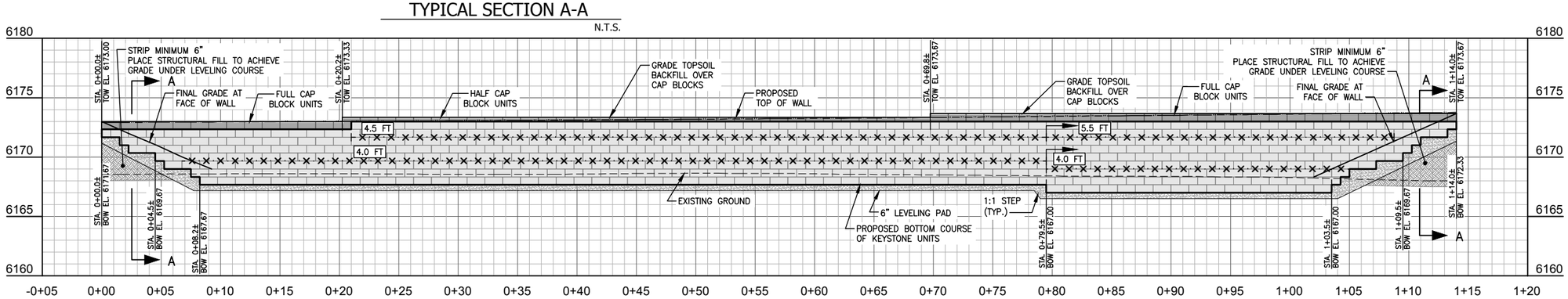




TYPICAL SECTION A-A

N.T.S.



RETAINING WALL H PROFILE

AREA OF WALL FACE = 625.5 SQ.FT.

		REV.
DATE	6/14/2016	
SURVEYED		–
ENGINEERED	PG	
DRAWN	BJG	
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

DRAWING TITLE
RETAINING WALL H
PLAN AND PROFILE

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO
RW-08

JOB NO
15-053-02

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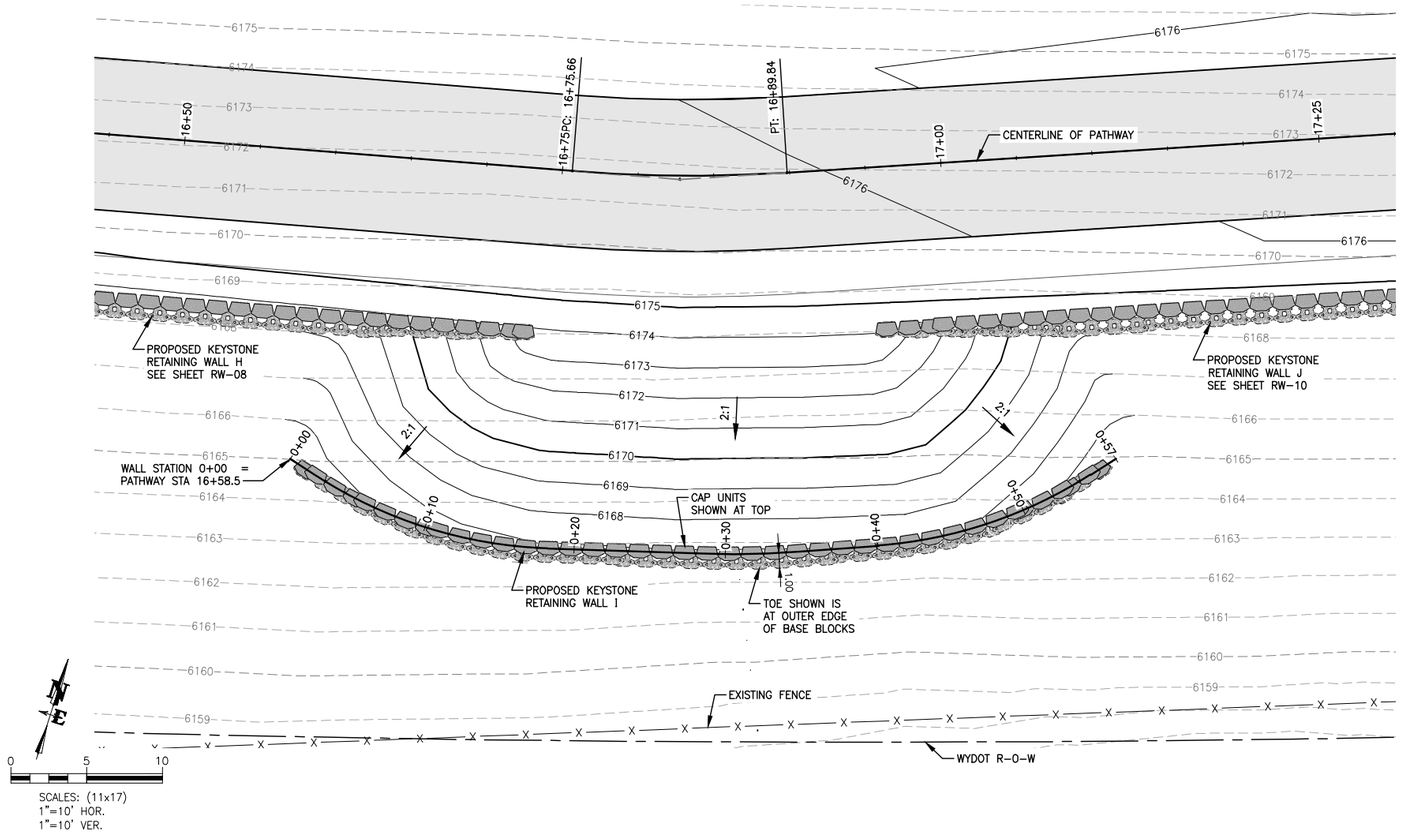
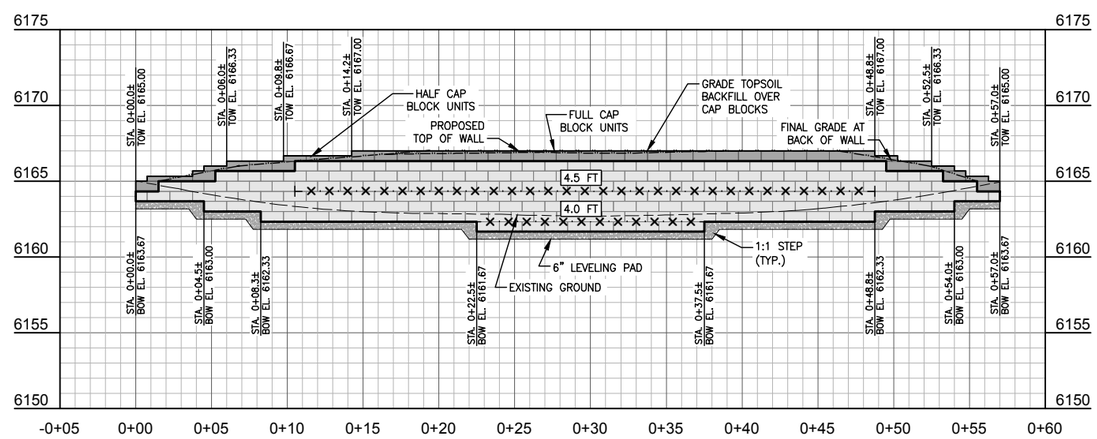




RETAINING WALL I PROFILE

AREA OF WALL FACE = 238.5 SQ.FT.

		REV.
DATE	5/4/2016	
SURVEYED	–	
ENGINEERED	PG	
DRAWN	BJG	
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

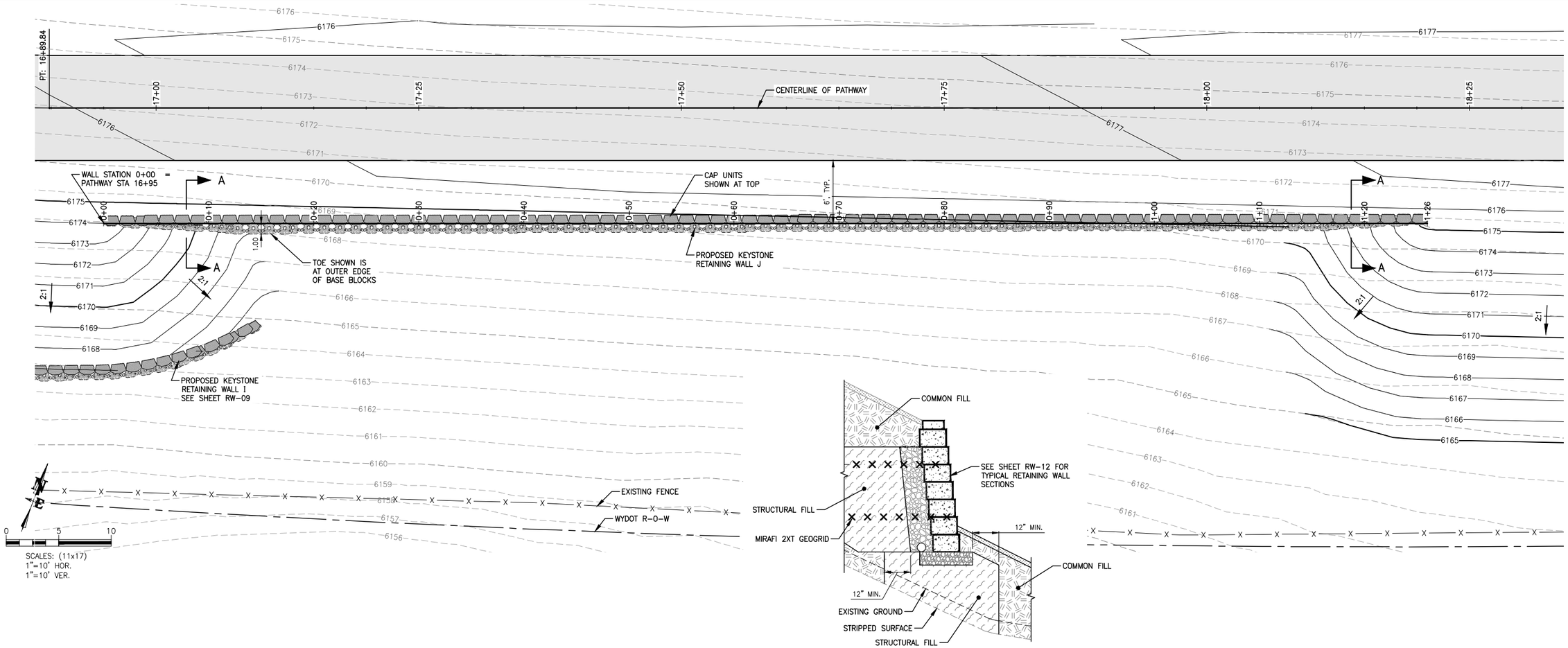
DRAWING TITLE
RETAINING WALL I
PLAN AND PROFILE

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO RW-09

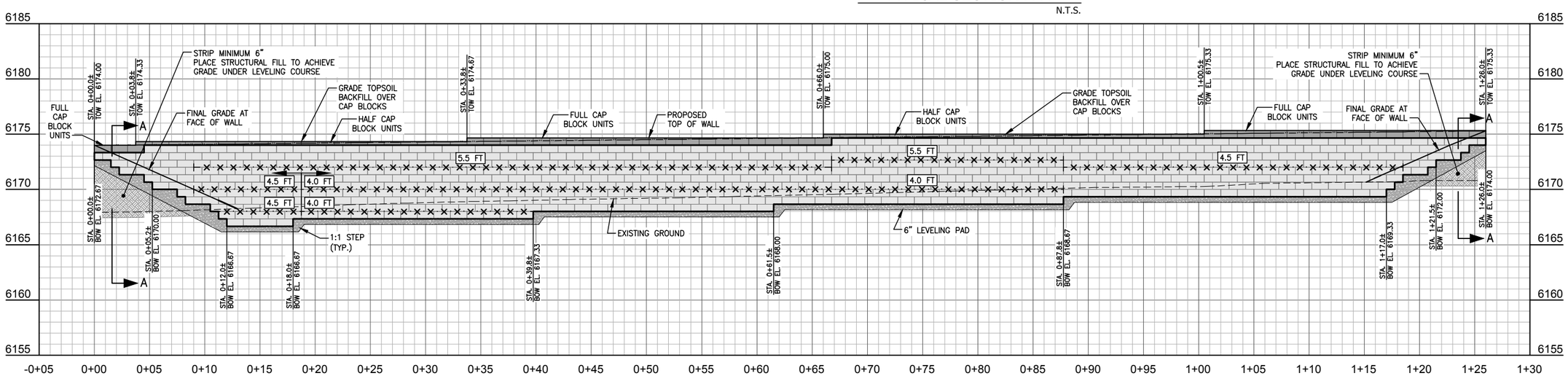
JOB NO 15-053-02

S:\Proj2015\053-01 (Path 22 Retaining Wall Design)\Drawings\LAYOUT\RETAINING WALL I.dwg (PAPH=0.00 - 8+57.00) - Jun 14 2016 10:17:49 am PLOTTED BY: green



TYPICAL SECTION A-A

N.T.S.



RETAINING WALL J PROFILE

AREA OF WALL FACE = 758.5 SQ.FT.

		REV.
DATE	6/14/2016	
SURVEYED		–
ENGINEERED	PG	
DRAWN	BJG	
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

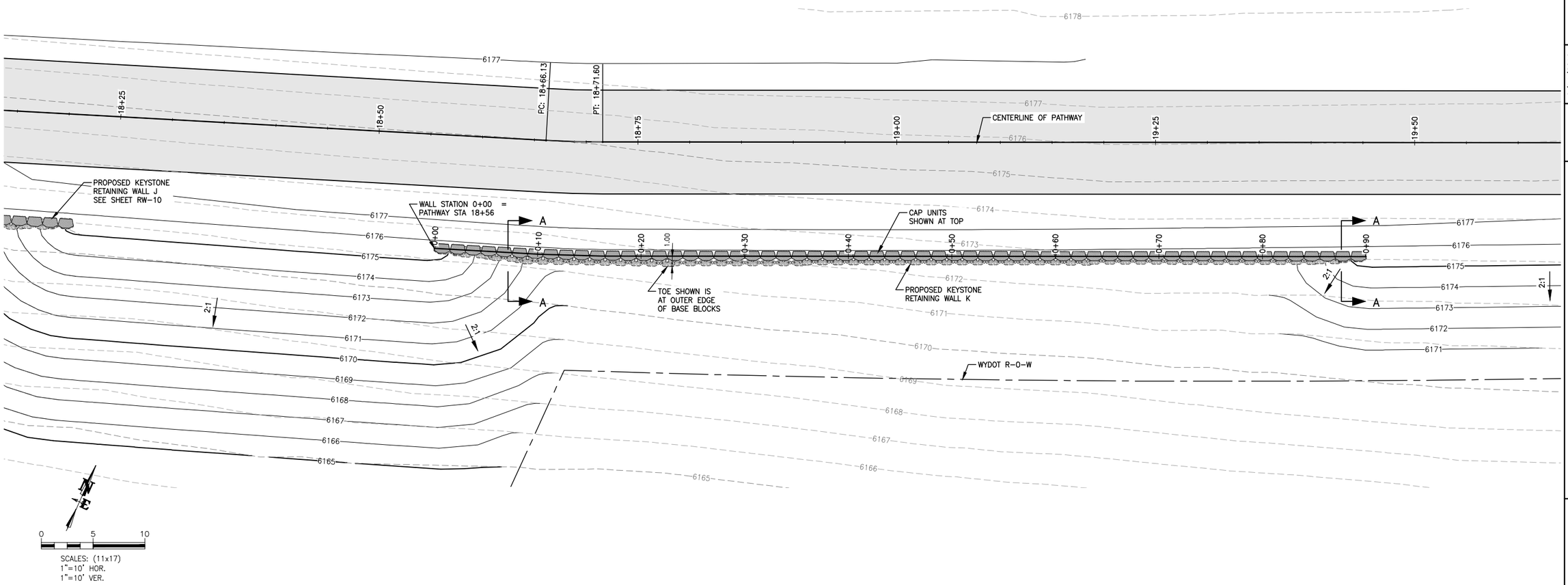
DRAWING TITLE
RETAINING WALL J
PLAN AND PROFILE

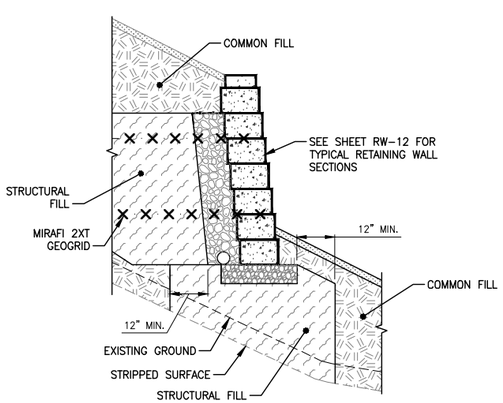
JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO
RW-10

JOB NO
15-053-02

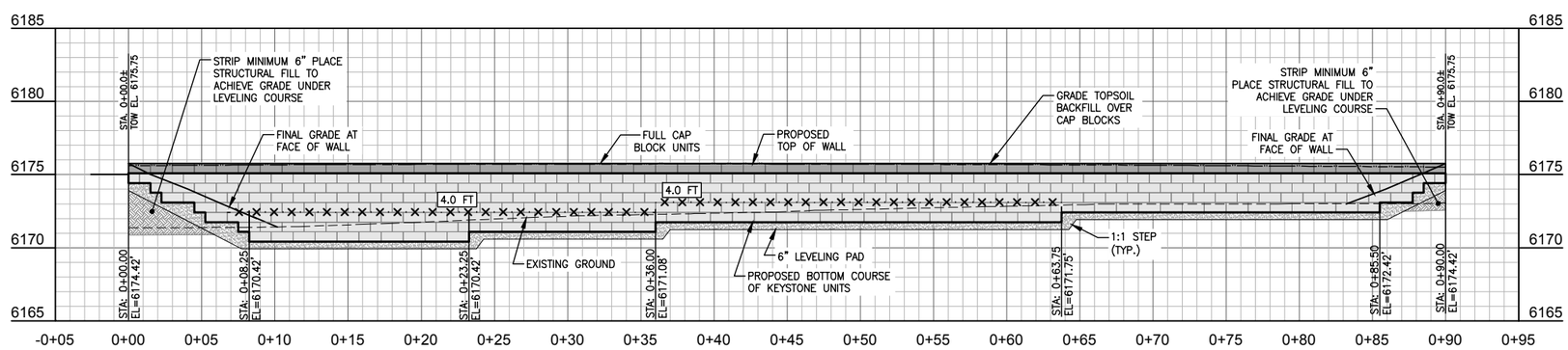
S:\Proj2015\053-01 Path 22 Retaining Wall Design\Drawings\LA\TD1\RETAINING WALL J.dwg (PAPD=ROOD - 1=26.00) - Jun 14 2016 10:18:29 am PLOTTED BY: green





TYPICAL SECTION A-A

N.T.S.



RETAINING WALL K PROFILE

AREA OF WALL FACE = 351.0 SQ.FT.

		REV.
DATE	6/14/2016	
SURVEYED	-	
ENGINEERED	PG	
DRAWN	BJG	
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087

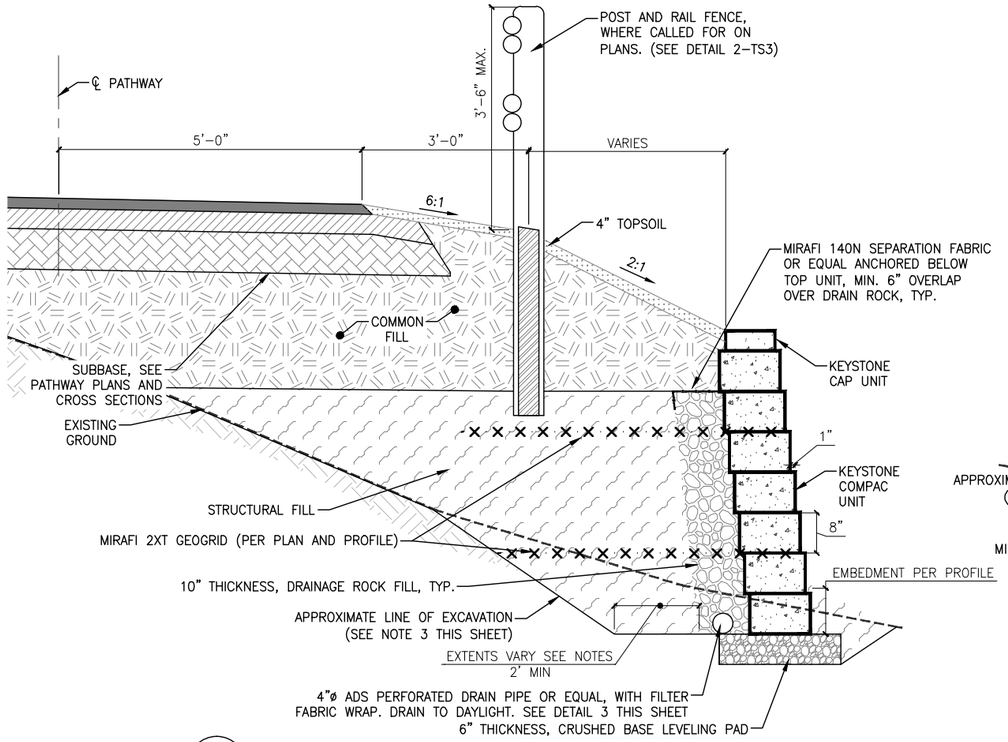
DRAWING TITLE
RETAINING WALL K
PLAN AND PROFILE

JOB TITLE
RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO RW-11

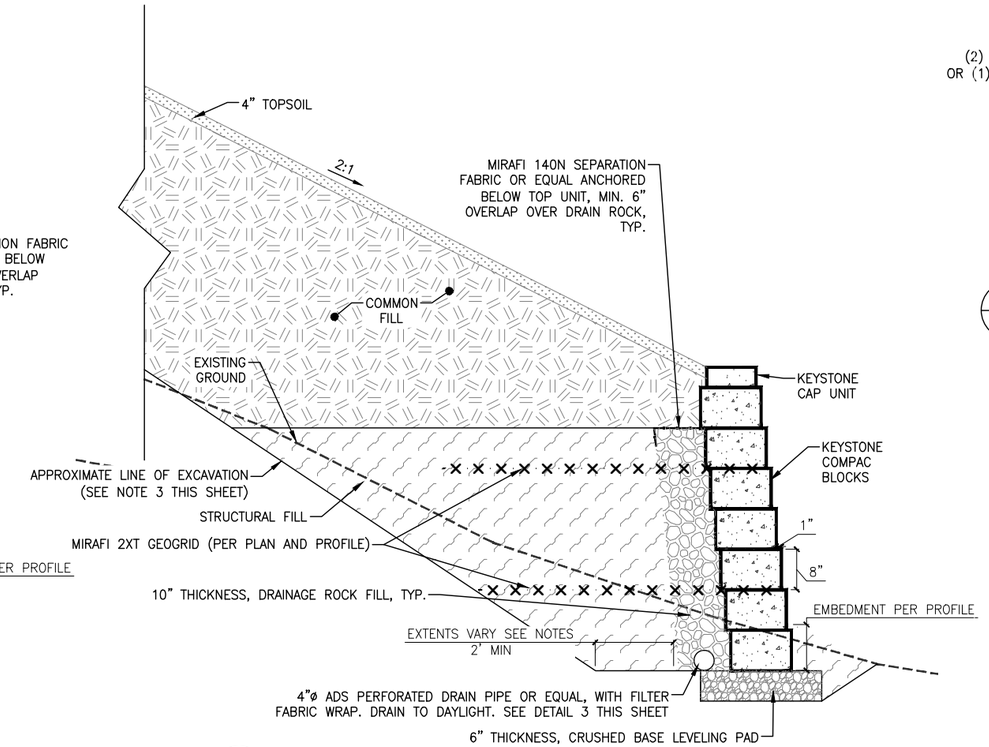
JOB NO 15-053-02

S:\Proj2015\053-01 (Path 22 Retaining Wall Design)\Drawings\LAYOUT\RETAINING WALL K.dwg (PATH=0:0.00 - 0+90.00) - Jun 14 2016 10:19:08 am PLOTTED BY: green



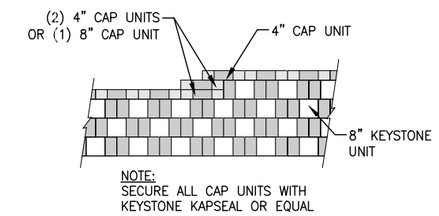
1 / 4.3 KEYSTONE RETAINING WALL TYPICAL UPPER SECTION

N.T.S.



2 / 4.3 KEYSTONE RETAINING WALL TYPICAL LOWER SECTION

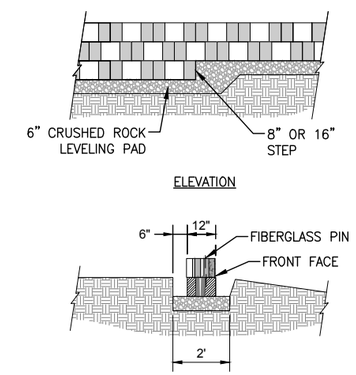
N.T.S.



NOTE:
SECURE ALL CAP UNITS WITH KEYSTONE KAPSEAL OR EQUAL

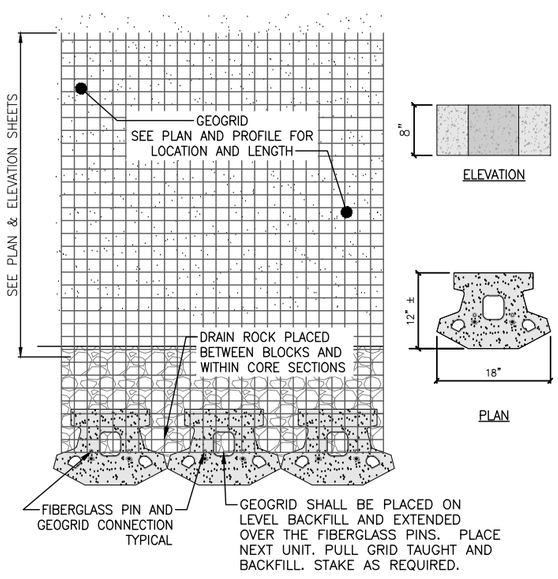
3 / 4.3 TOP OF WALL STEPS

N.T.S.



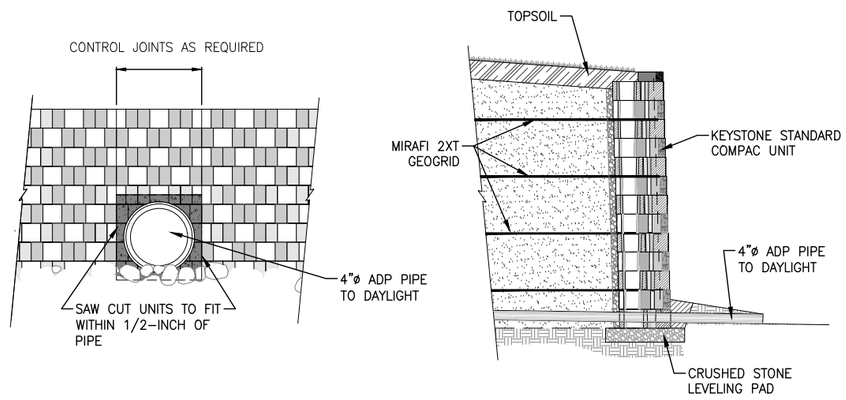
4 / 4.3 LEVELING PAD DETAIL

N.T.S.



5 / 4.3 GEOGRID & PIN CONNECTION (PLAN VIEW)

N.T.S.



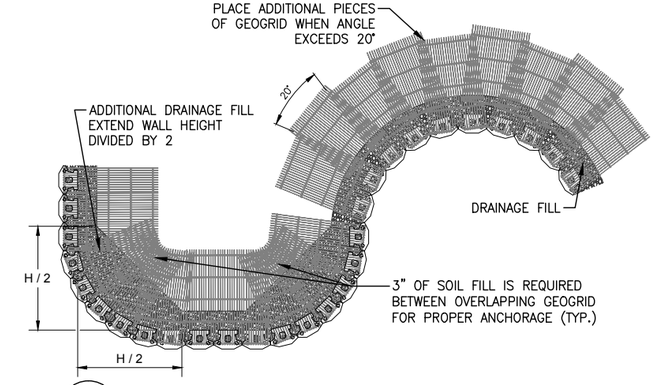
6 / 4.3 TYPICAL PIPE OUTLET DETAIL

N.T.S.

NOTES:

1. FOUNDATION SUBGRADE SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF THE LEVELING PAD.
2. CONTRACTOR SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS FOR CORRECT HANDLING, STORAGE, INSTALLATION AND DIRECTION OF ORIENTATION FOR GEOGRID.
3. THE EXTENT OF STRUCTURAL FILL AT THE BASE OF THE WALL VARIES AS FOLLOWS:
   A. WHERE THERE IS NO REINFORCING GEOGRID, STRUCTURAL FILL SHALL EXTEND A MINIMUM OF 2'.
   B. WHERE THERE IS GEOGRID, EXTENT OF STRUCTURAL FILL AT WALL BASE SHALL EQUAL THE LENGTH OF THE LOWEST GEOGRID

NOTE:
GEOGRID MACHINE DIRECTION ORIENTED PERPENDICULAR TO WALL FACE TO OBTAIN PROPER STRENCTH



7 / 4.3 GEOGRID INSTALLATION ON CURVES

N.T.S.

DATE	6/23/2016	REV.
SURVEYED	–	
ENGINEERED	PG	
DRAWN	BJG	
CHECKED		
APPROVED		

NELSON ENGINEERING
P.O. BOX 1599, JACKSON WYOMING (307) 733–2087

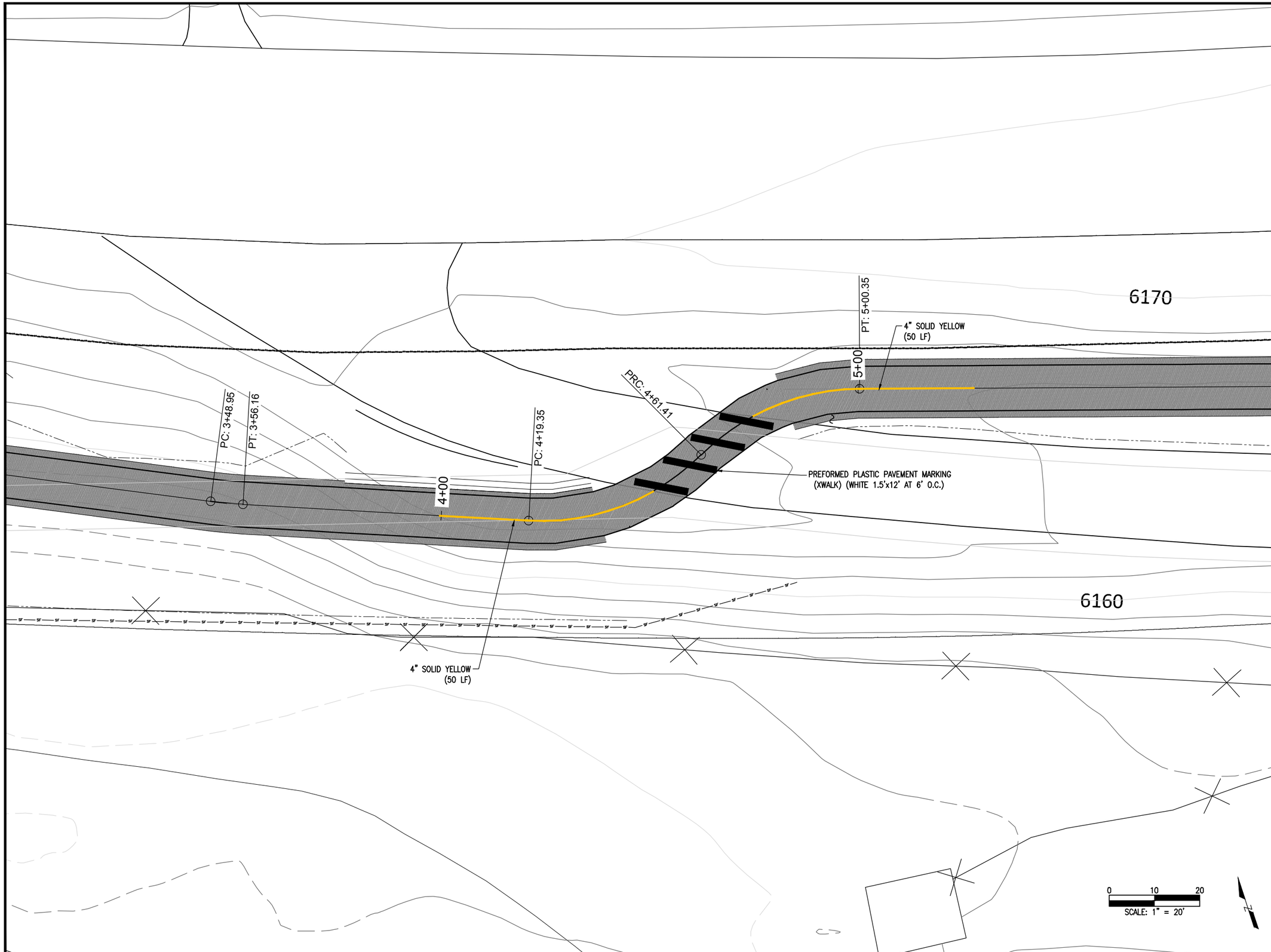
DRAWING TITLE: KEYSTONE RETAINING WALL DETAILS

JOB TITLE: RETAINING WALL DESIGN
PATHWAY 22
TETON COUNTY, WYOMING

DRAWING NO: RW–12

JOB NO: 15–053–02

S:\Proj2015\053-01 (Path 22 Retaining Wall Design)\Drawings\LAYOUT\RETAINING WALL DETAILS.dwg (KEYWALL DETAIL) – Jun 23 2016 02:14:59 pm PLOTTED BY gyr DWG FORMAT: 191



PREPARED BY:

DATE:

-

TETON COUNTY WYOMING

PATH 22 JACKSON HOLE COMMUNITY PATHWAYS

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

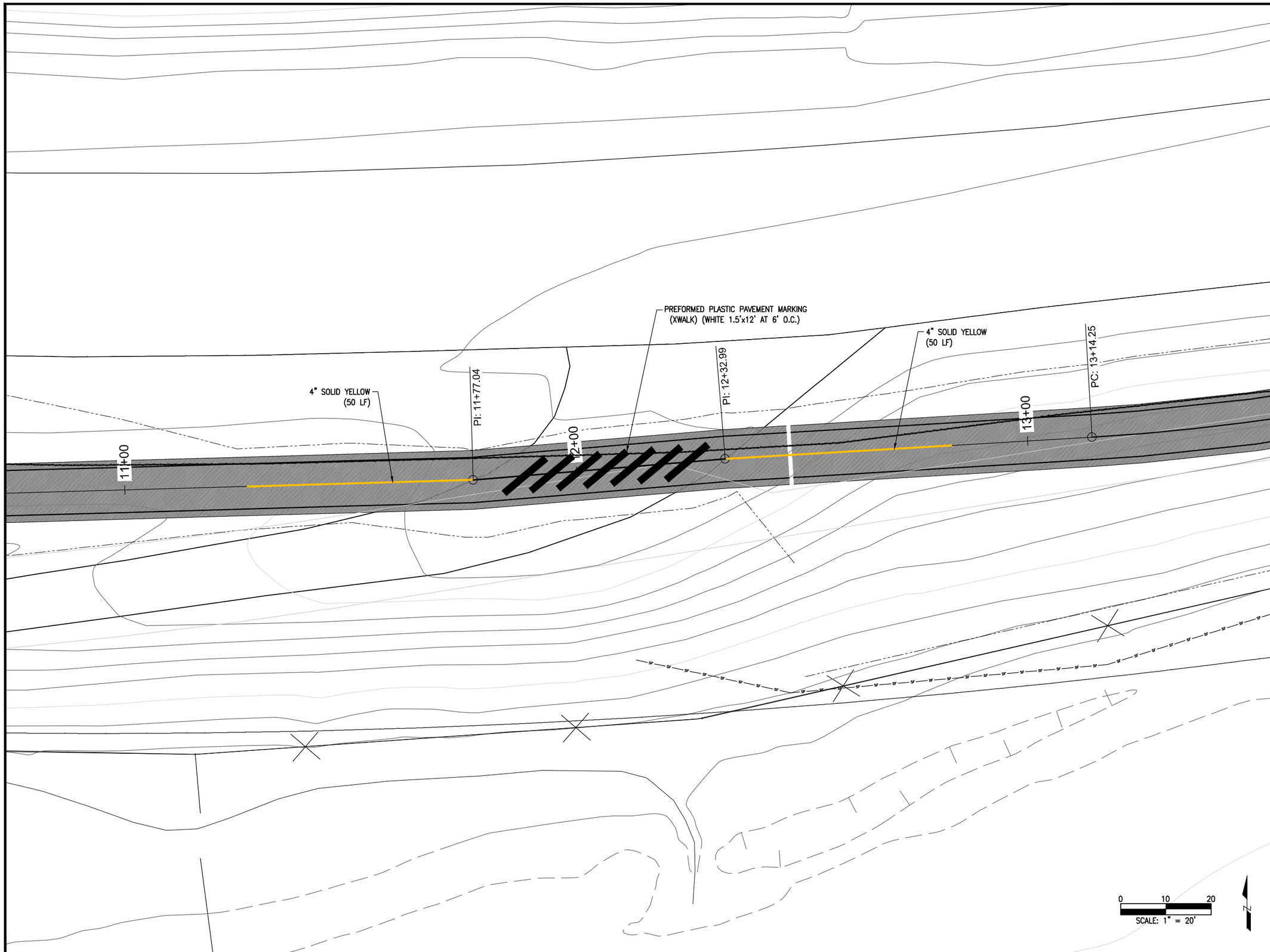
DRAWING TITLE:

SHARED_USED_ROADWAY

DRAWING NUMBER:

SS1

G:\72 Clients\364 - Teton\15140 - Path22-Mid\50 DWG\50.2 C3D\50.02.3 Align-Profiles\WY-22 PATHWAY_PHASE2.dwg <Option 1 (2)> - Apr 20 2016 01:45:11 pm PLOTTED BY: LXiong



PREPARED BY:

DATE:

-

TETON COUNTY WYOMING

JACKSON HOLE COMMUNITY PATHWAYS
PATH 22

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:

SHARED_USED_ROADWAY

DRAWING NUMBER:

SS2

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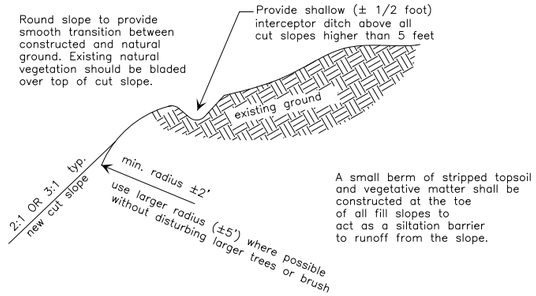
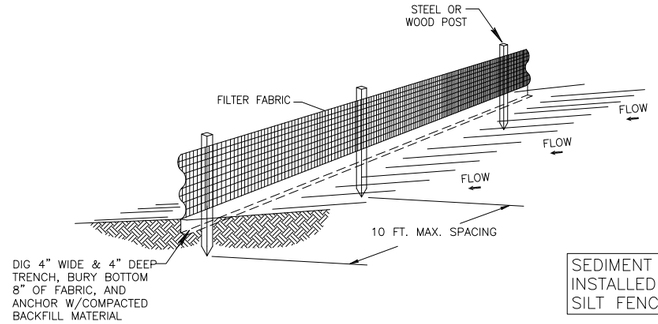


1 / D1 SLOPE ROUNDING DETAIL

N.T.S.



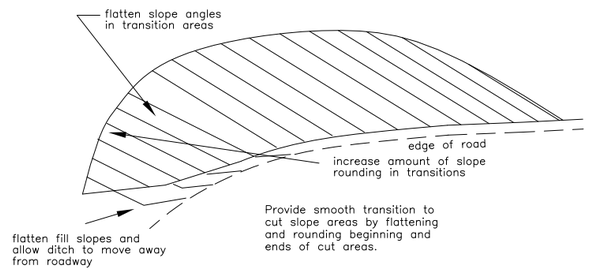
SEDIMENT LOG SHALL ALSO BE INSTALLED DIRECTLY ADJACENT TO ALL SILT FENCE SHOWN

NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. THE FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGIONAL GROUND SURFACE.
6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
7. FABRIC AND INSTALLATION TECHNIQUES TO BE APPROVED BY ENGINEER.

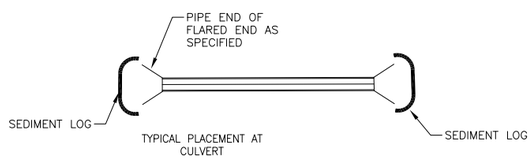
4 / D1 SILT FENCE INSTALLATION DETAIL

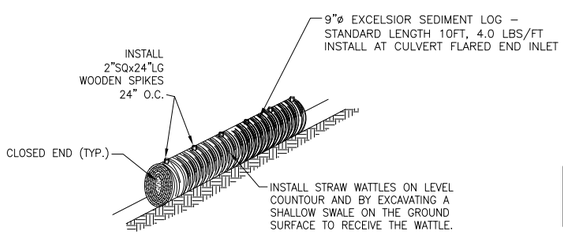
N.T.S.



2 / D1 SLOPE TRANSITION DETAIL

N.T.S.





CONTINUOUS RUNS OF STRAW WATTLE SHALL BE MADE BY ABUTTING ENDS OF INDIVIDUAL WATTLES WITH NO GAPS BETWEEN

SEDIMENT LOG SHALL ALSO BE INSTALLED DIRECTLY ADJACENT TO ALL SILT FENCE SHOWN

3 / D1 SEDIMENT LOG DETAIL

N.T.S.

TETON COUNTY WYOMING

ENGINEERING & PATHWAYS
OLD TETON COUNTY LIBRARY
320 S. KING STREET
PO BOX 3594
JACKSON, WY 83001
P: 307.733.3317

PATH 22 MIDDLE SECTION PHASE 2

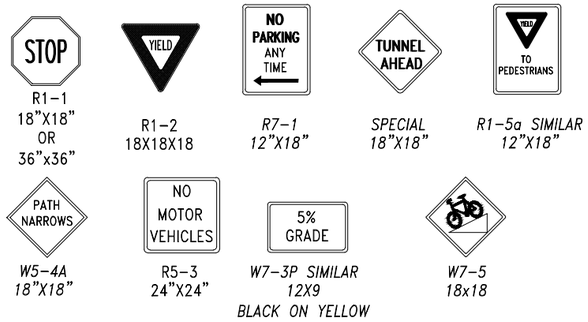
CATTLE TUNNEL TO SPRING GULCH
HIGHWAY 22, TETON COUNTY, WY

Issue Date:
. Jun 24, 2016 - 4:05pm

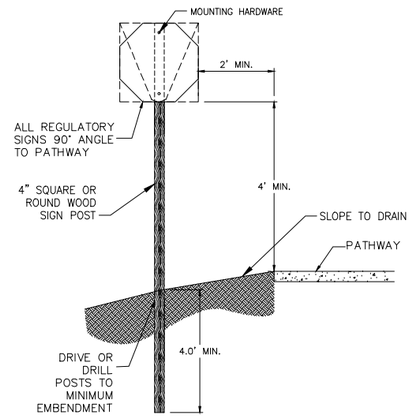
Drawing Title:
DETAILS

D1

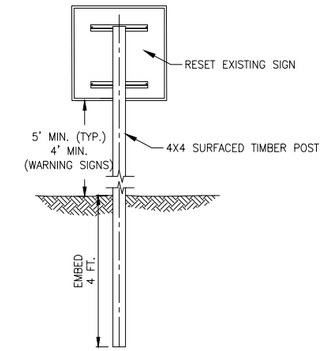
Y:\A_PROJECTS - Pathways\HWY22\MIDDLEPHASE_2\PLANS\DETAILS_EROSION CONTROL.dwg (2.3) - Jun 24 2016 04:05:26 pm PLOTTED BY: orange



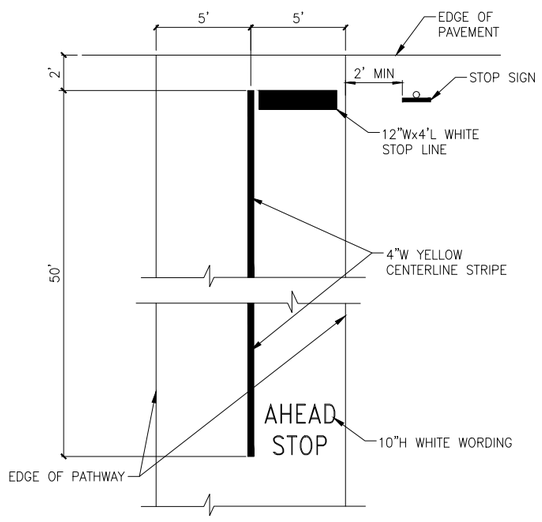
1 D2 SIGNS
N.T.S.



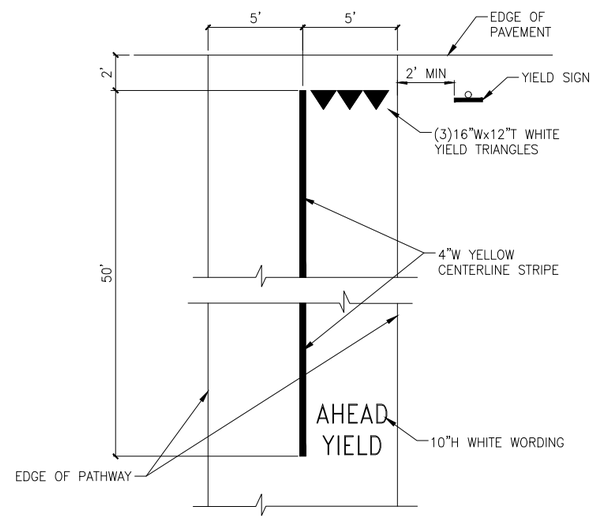
2 D2 PATHWAY SIGN DETAIL
N.T.S.



3 D2 ROADWAY SIGN DETAILS
N.T.S.



4 D2 STOP LINE STRIPING DETAIL



5 D2 YIELD LINE STRIPING DETAIL

TETON COUNTY WYOMING
ENGINEERING & PATHWAYS
OLD TETON COUNTY LIBRARY
320 S. KING STREET
PO BOX 3594
JACKSON, WY 83001
P: 307.733.3317

PATH 22 MIDDLE SECTION PHASE 2

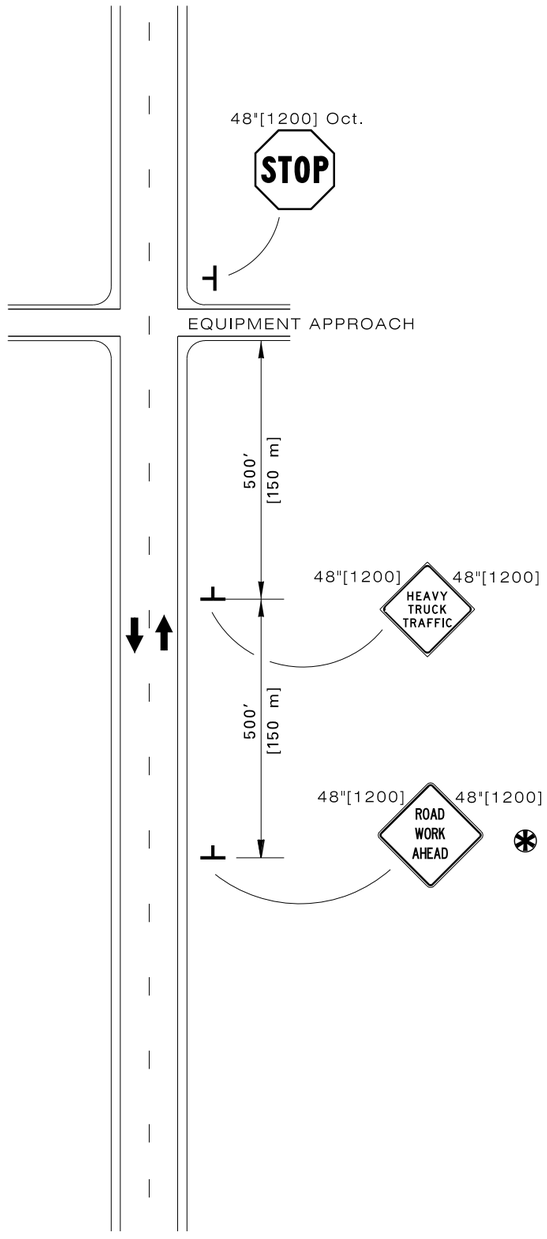
CATTLE TUNNEL TO SPRING GULCH
HIGHWAY 22, TETON COUNTY, WY

Issue Date:
- May 27, 2016 - 1:27pm

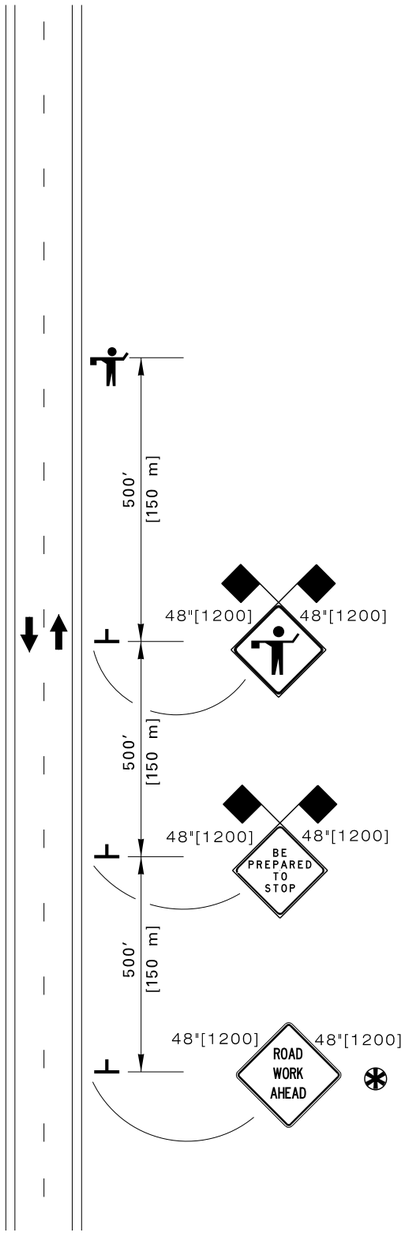
Drawing Title:
DETAILS

D2

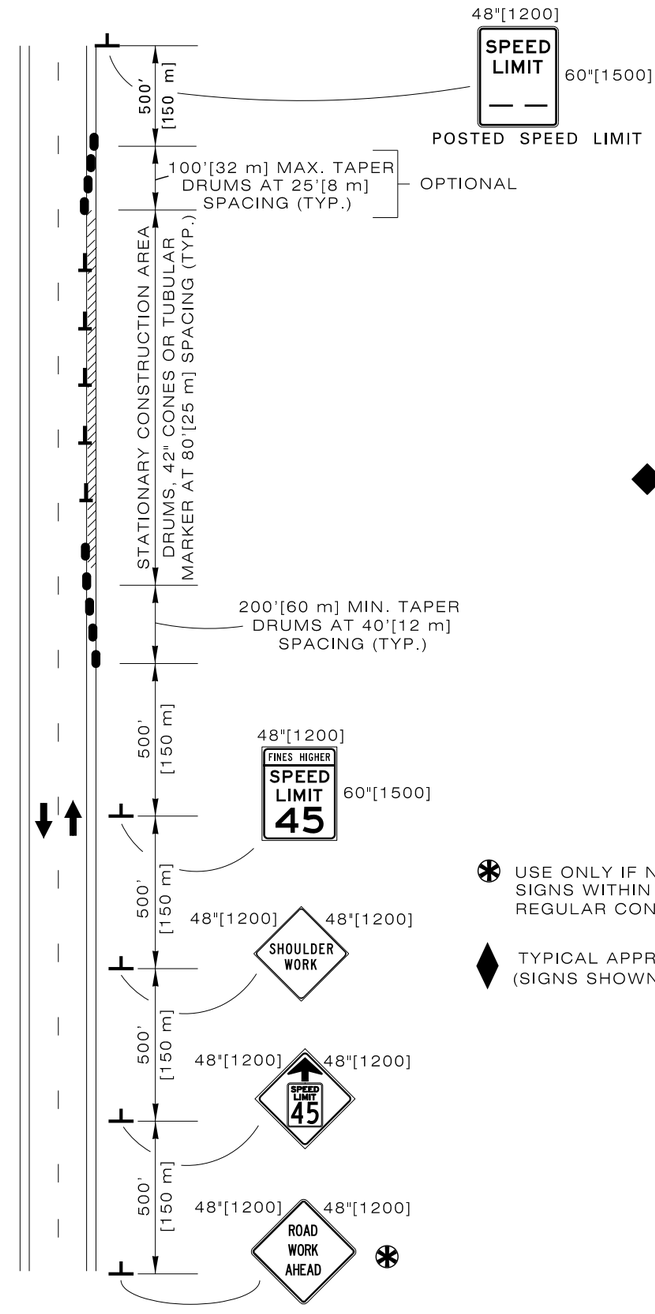
Y:\A PROJECTS - Pathways\HWY22\MIDDLE\PHASE_2\PLANS\DETAILS_EROSION CONTROL.dwg (2.4) - May 27 2016 01:27:31 pm PLOTTED BY orawagr



EQUIPMENT CROSSING STOP CONTROL



TYPICAL FLAGGER STATION SIGNING



SHOULDER REPAIR WORK 10'[3 m] MIN. LANE WIDTH

LEGEND

- DRUM
- FLAGS
- FLAGGER
- CONSTRUCTION AREA
- DRUM, 42"[1050] CONE OR TUBULAR MARKER

✱ USE ONLY IF NO PREVIOUS "ROAD WORK AHEAD" SIGNS WITHIN 1 MILE [1.6 km], OR IF OUTSIDE OF THE REGULAR CONSTRUCTION AREA.

♦ TYPICAL APPROACH SIGNING, SIGN FOR BOTH DIRECTIONS (SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY).

Designed by: TRAFFIC	TYPICAL TRAFFIC CONTROL SIGNING
Drawn by: JTG	
Checked by: TRAFFIC	
Previous Dwg. No. 703-2D	

Note: Units shown in brackets [ ] are metric and are in millimeters (mm) unless other units are shown.

WYOMING DEPARTMENT OF TRANSPORTATION

CONSTRUCTION TRAFFIC CONTROL TWO LANE

STANDARD PLAN

STANDARD PLAN NUMBER
703-2E
SHEET 2 of 6
Issued by: TRAFFIC PROGRAM
Date Issued: OCTOBER, 2014