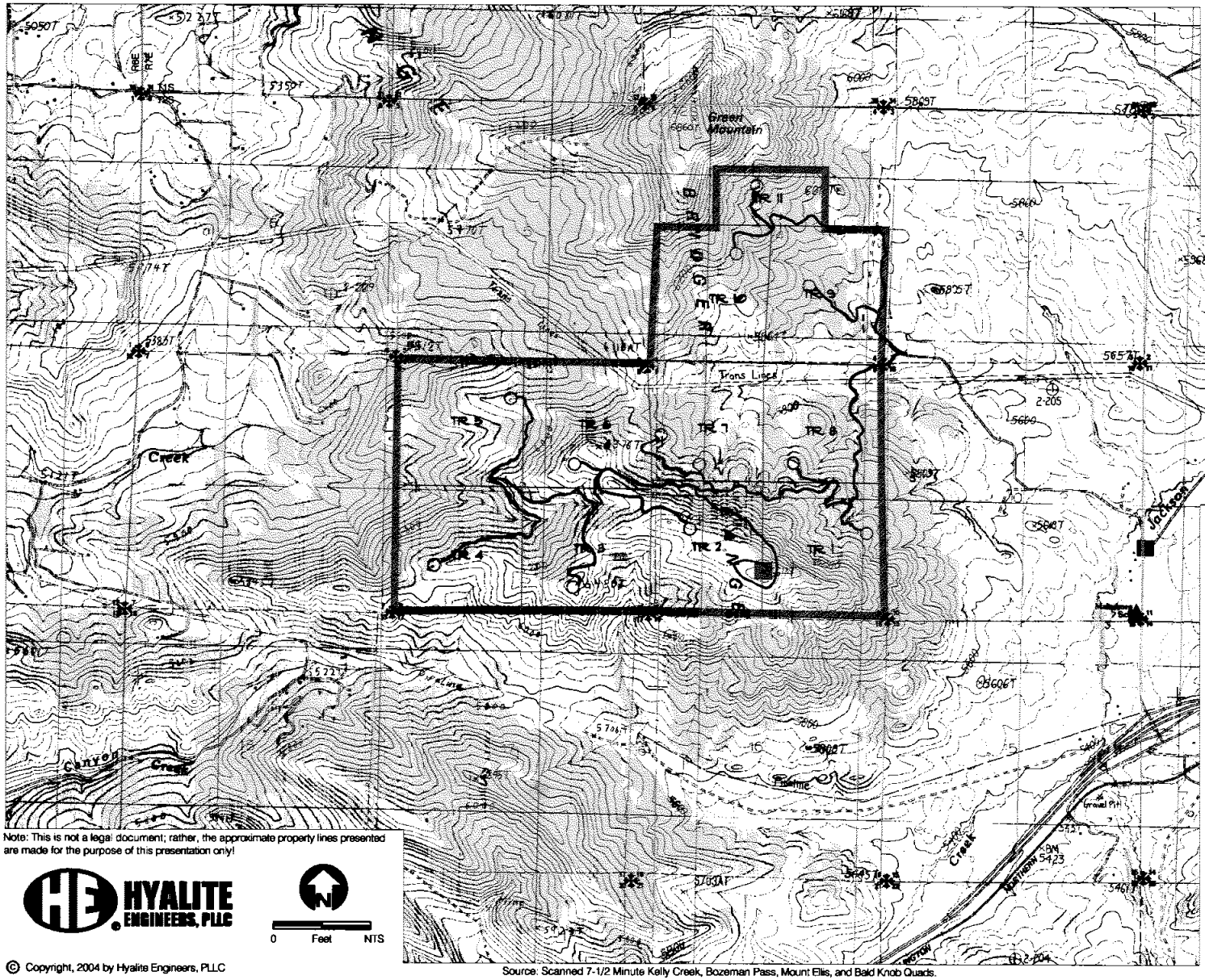
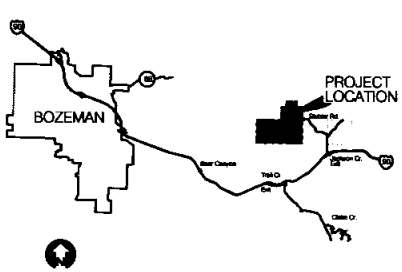


LEGEND

- Approx. SICO Property Boundary
- Radio Tower Site(s)
- Malmborg School
- Jackson Cr. Rd. Turn Off to Stublar Rd.
- Approx. Section Corner



VICINITY MAP
NOT TO SCALE

SICO MONTANA - KELLY CANYON/GREEN MTN. PERMITTING FOR IMPROVEMENTS 2004-2005

Figure 1-0 Site and Vicinity Map

BOZEMAN, MONTANA

Note: This is not a legal document; rather, the approximate property lines presented are made for the purpose of this presentation only!

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Source: Scanned 7-1/2 Minute Kelly Creek, Bozeman Pass, Mount Ellis, and Bald Knob Quads.

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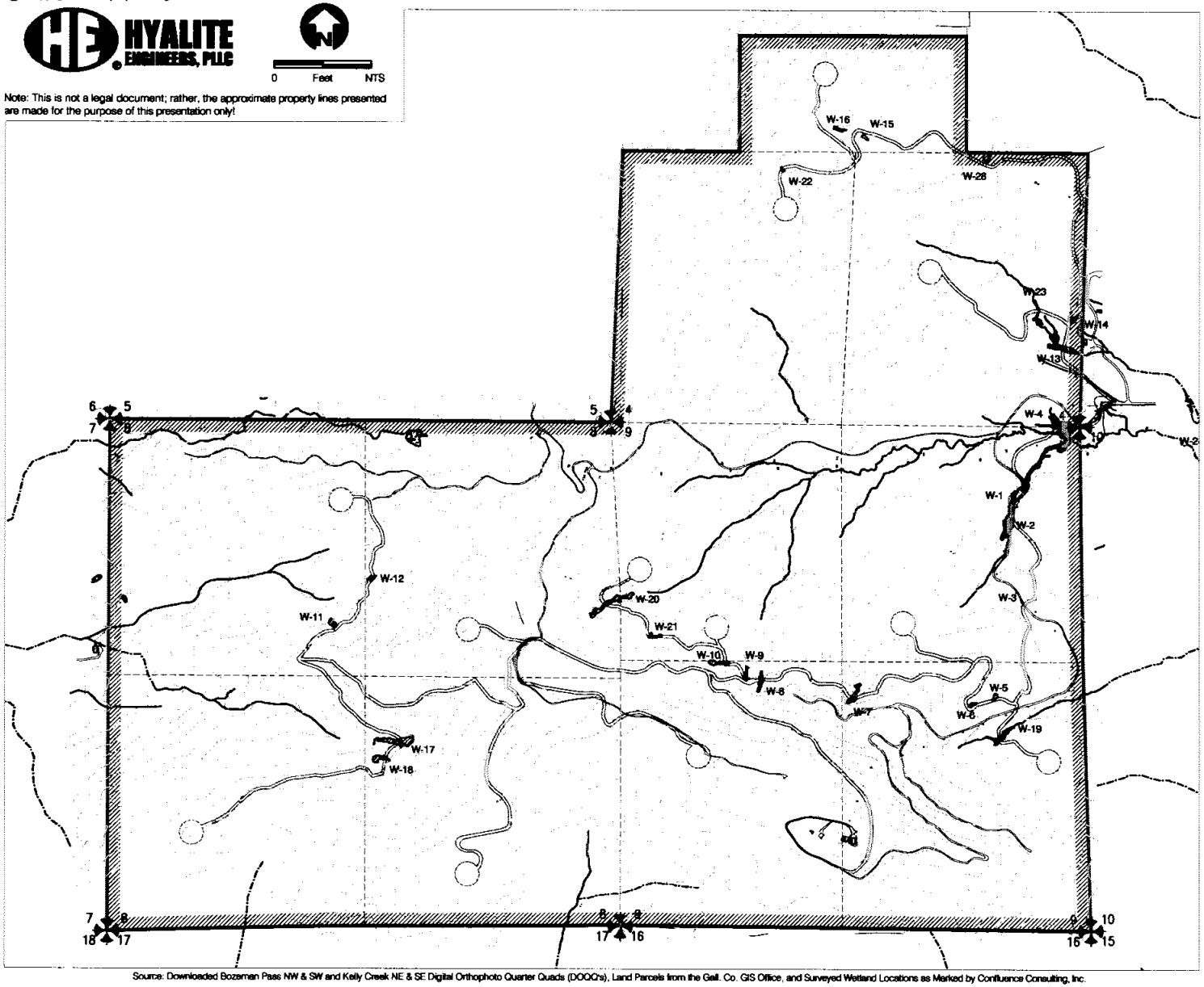
Note: This is not a legal document; rather, the approximate property lines presented are made for the purpose of this presentation only!



Source: Downloaded Bozeman Pass NW & SW and Kelly Creek NE & SE Digital Orthophoto Quarter Quads (DOQQ's), Land Parcels from the Gall. Co. GIS Office, and Surveyed Wetland Locations as Marked by Confluence Consulting, Inc.

SUMMARY OF WETLANDS

Wetland	Del. Size (Sq. Ft.)	J/NJ
W-1	29,392	J
W-2	754	J
W-3	170	NJ
W-4	64,457	J
W-5	2,006	NJ
W-6	1,974	NJ
W-7	9,288	J
W-8	6,577	J
W-9	3,859	J
W-10	5,892	NJ
W-11	5,450	J
W-12A	617	NJ
W-12B	897	NJ
W-13	21,617	J
W-14	7,870	J
W-15	2,082	J
W-16	2,884	NJ
W-17	19,389	NJ
W-18	6,413	NJ
W-19	12,245	J
W-20	16,643	NJ
W-21	2,666	NJ
W-22	838	NJ
W-23	6,626	J
W-28	5,464	NJ
Total (Sq. Ft.)	235,450	
Total (Acres)	5.405	

Notes:
Field wetland delineation was conducted by Confluence Consulting, Inc. over the month of July, 2004. Pin flags set by Confluence were surveyed by Hyalite Engineers, PLLC with both Conventional and Survey-Grade GPS equipment. All wetland locations were correlated with surveyed boundary lines and property corners provided by Alpine Surveying.

LEGEND

- Approx. SICO MT Property Boundary
- Approx. Site Access Road(s)
- Approx. Home Site Location
- Approx. Section Corner
- Non-Jurisdictional Wetland Area
- Jurisdictional Wetland Area
- Existing Watercourse

SICO MONTANA - KELLY CANYON/GREEN MTN.
PERMITTING FOR IMPROVEMENTS 2004-2005

Figure WL-1
Wetland Overview and Property Boundaries

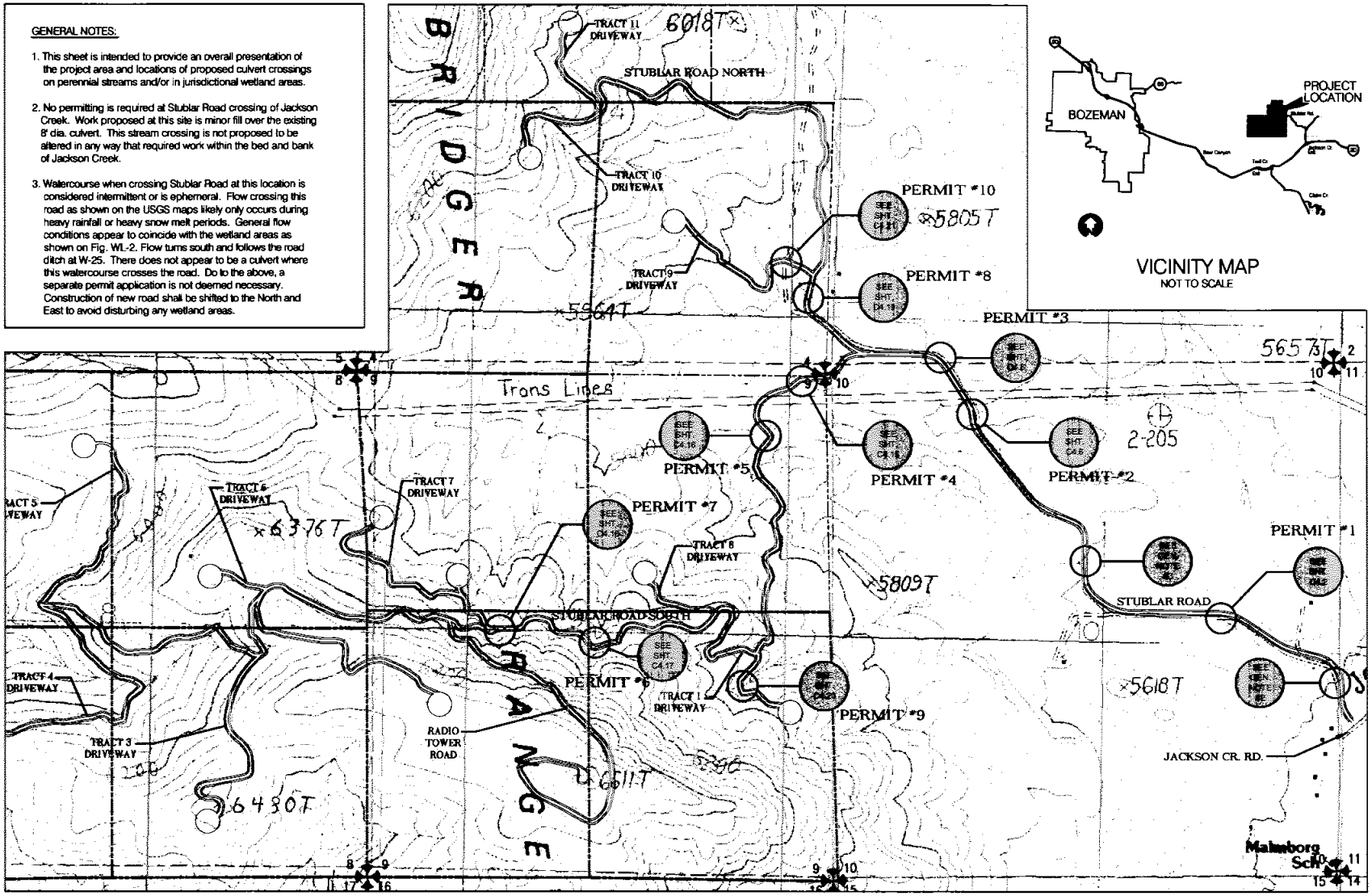
BOZEMAN, MONTANA

GENERAL NOTES:

1. This sheet is intended to provide an overall presentation of the project area and locations of proposed culvert crossings on perennial streams and/or in jurisdictional wetland areas.

2. No permitting is required at Stublar Road crossing of Jackson Creek. Work proposed at this site is minor fill over the existing 8' dia. culvert. This stream crossing is not proposed to be altered in any way that required work within the bed and bank of Jackson Creek.

3. Watercourse when crossing Stublar Road at this location is considered intermittent or is ephemeral. Flow crossing this road as shown on the USGS maps likely only occurs during heavy rainfall or heavy snow melt periods. General flow conditions appear to coincide with the wetland areas as shown on Fig. WL-2. Flow turns south and follows the road ditch at W-25. There does not appear to be a culvert where this watercourse crosses the road. Do to the above, a separate permit application is not deemed necessary. Construction of new road shall be shifted to the North and East to avoid disturbing any wetland areas.



1 C4.0 OVERALL KEY MAP FOR 310 PERMITTING

SCALE: NTS

NORTH

HYALITE ENGINEERS, PLLC
2066 STADIUM DR., STE 103
BOZEMAN, MT 59715
PHONE: (406) 587-2781
FAX: (406) 522-9225
WEB: www.hyaliteeng.com

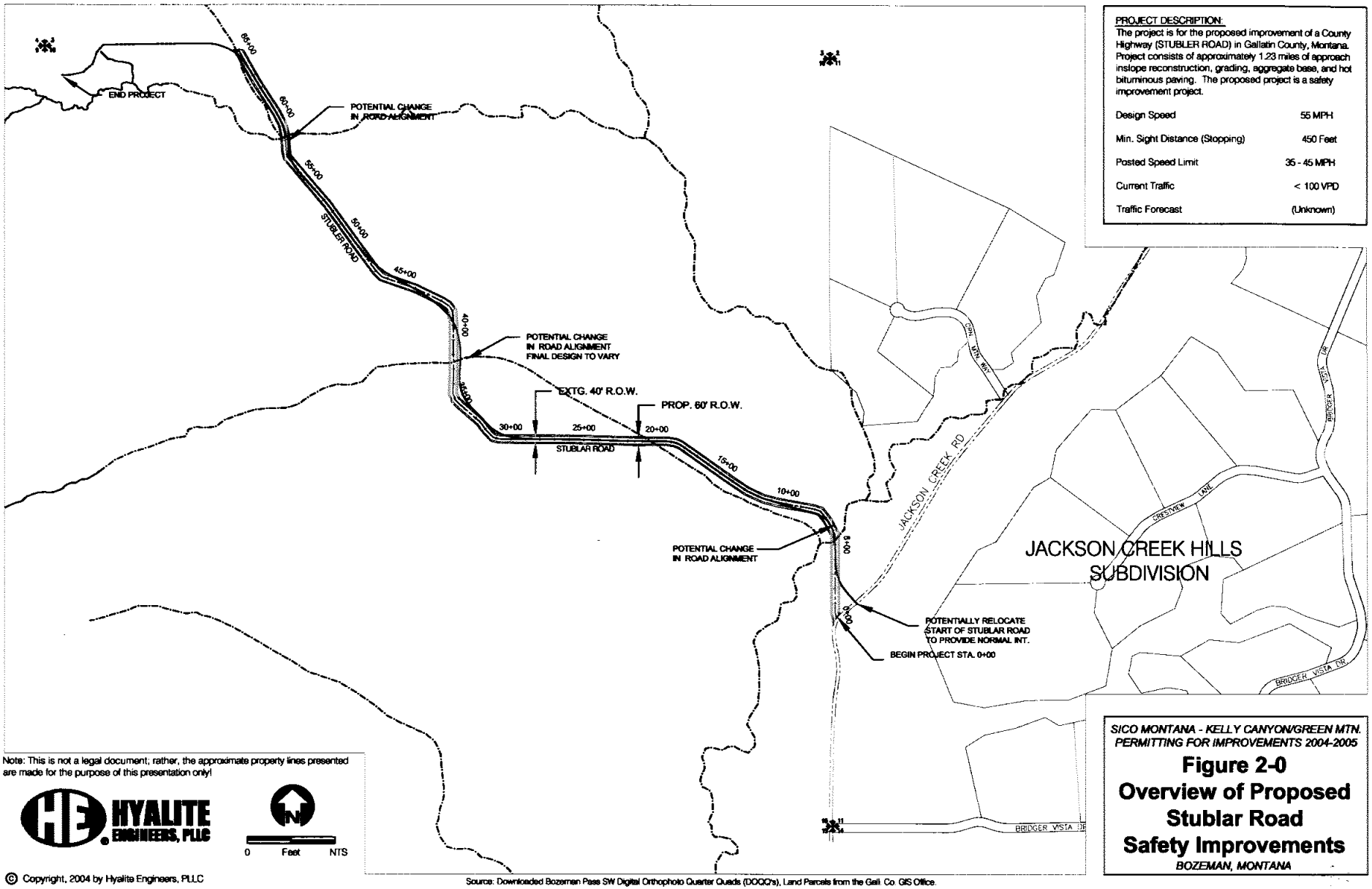
SICO MONTANA
STUBLAR & GRN. MTN. ROAD IMP.
BOZEMAN, MONTANA

MONTANA PROFESSIONAL ENGINEER
CORY R. RAINAS
No. 14183PE
PRELIMINARY

ISSUED:
310 Permit Application

DATE: CPR
DRAWN BY: CPR/RDH
SCALE:
JOB NUMBER:
SHEET: C4.0A

COE-HLRA
JAN 2005

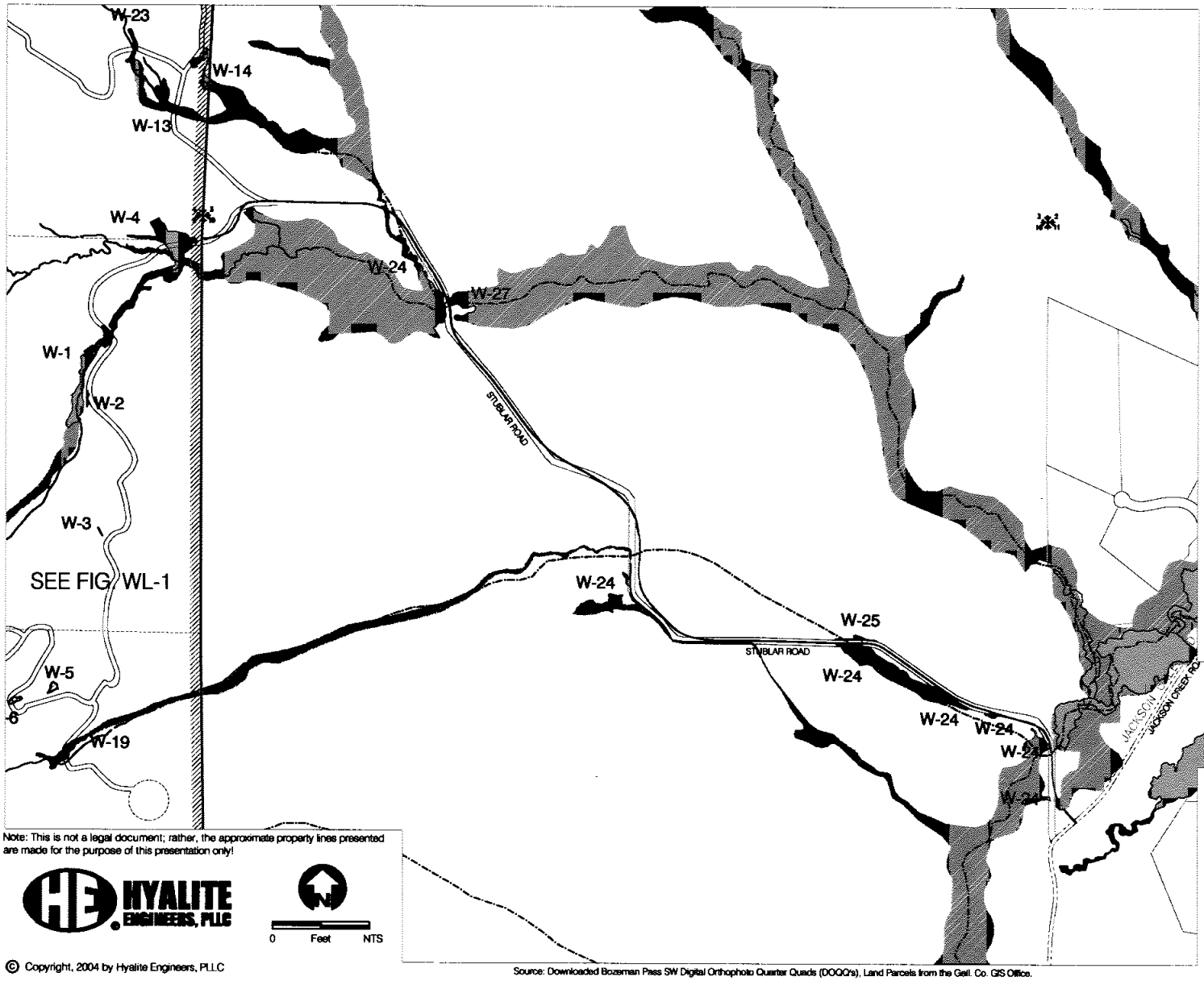


PROJECT DESCRIPTION:
The project is for the proposed improvement of a County Highway (STUBLER ROAD) in Gallatin County, Montana. Project consists of approximately 1.23 miles of approach inslope reconstruction, grading, aggregate base, and hot bituminous paving. The proposed project is a safety improvement project.

Design Speed	55 MPH
Min. Sight Distance (Stopping)	450 Feet
Posted Speed Limit	35 - 45 MPH
Current Traffic	< 100 VPD
Traffic Forecast	(Unknown)

SICO MONTANA - KELLY CANYON/GREEN MTN. PERMITTING FOR IMPROVEMENTS 2004-2005

Figure 2-0
Overview of Proposed Stublar Road Safety Improvements
BOZEMAN, MONTANA



LEGEND

- Approx. SICO MT Property Boundary
- Approx. Site Access Road(s) on Grn. Mtn.
- Approx. Grn. Mtn. Home Site Location
- Approx. Section Corner
- Proposed New C.L. Align. on Stublar Road
- Existing C.L. Align. & R.O.W. on Stublar Road
- Non Jurisdictional Wetland Area
- Jurisdictional Wetland Area
- Approx. Jurisdictional Wetland Area (Determined by Interpretation of Aerial Images)
- Delineated Wetland Boundary Along Stublar Road
- Approx. Existing Watercourse

Notes:
Field wetland delineation was conducted by Confluence Consulting, Inc. over the month of July, 2004. Only lines indicated in the legend as being delineated were field located. All other wetlands were determined by approximate means. Pin flags set by Confluence were surveyed by Hyalite Engineers, PLLC with both Conventional and Survey-Grade GPS equipment. All wetland locations were correlated with surveyed boundary lines and property corners provided by Alpine Surveying. Wetlands on the Jackson Creek Hills Subdivision Property to the East of Stublar Road were delineated by Confluence Consulting, Inc. in October of 2002. Please refer to *Report of Findings and Delineation of Waters of the U.S. Including Special Aquatic Sites and Jurisdictional Wetlands* (Confluence, 2003), on file with the Helena office of the U.S. Army Corps of Engineers (Corps File No: 2003-90-117), for more information on this property.

Note: This is not a legal document; rather, the approximate property lines presented are made for the purpose of this presentation only!

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Source: Downloaded Bozeman Pass SW Digital Orthophoto Quarter Quads (DOQQ's), Land Parcels from the Gall. Co. GIS Office.

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Figure WL-2
Wetland Overview Along Stublar Road

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