



# DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION

WHITE SANDS MISSILE RANGE, NEW MEXICO

## CONCURRENCES

Note: Signatures affixed on this sheet indicate official recommendation and approval of all the drawings in this set as indexed on this sheet

Garrison Safety
Physical Security
Fire Department
DPW Environmental
Anti-Terrorism Force Protection
Information Management
Operations & Maintenance
Customer 1
Customer 2

# REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST

BID SET  
100% DESIGN  
DATE: DEC 2022

NO.	DATE	DESCRIPTION	BY	APPROVED
REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>				
DRAWN BY REP	DESIGNED BY	<b>REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST</b>		
CHECKED BY				
SUBMITTED				
PROJECT MANAGER				
RECOMMENDED				
APPROVED		DRAWING NUMBER	PLATE	
John Morgan CHIEF, ENGINEERING DIVISION		WS-85110-2022-C-G-01	01	
DATE	SCALE	SHEET	OF	
December, 2022	NONE	1	10	

General Notes:

- Contractor shall coordinate all work with existing conditions and construction drawings. Provide all equipment, material and labor as required for complete functional system.
- All materials and equipment shall be installed in accordance with manufacture's published recommendations, contract documents, industry standards and all federal, state, and local codes and amendments as adopted by the government for service intended by the Contracting Officer (KO). The install of all materials and equipment shall be made by experience and licensed craftsman in a neat workman like manner. All materials, supervision, labor, tool, costs and services necessary to completely install a functional system shall be furnished by the contractor.
- The term "provide" used in the drawings and scope of work implies the contractor is to furnish, transport, install, connect, warrant, and start-up, inclusively.
- The drawings are diagrammatic only but shall be followed as closely as actual construction conditions and work of other trades permit.
- Upon completion of work, contractor shall provide within 10 days, manufacture's operating & maintenance manual for all equipment including replacement parts list.
- Contractor shall report discrepancies between field conditions and new construction drawings to the KO in writing before the RFI deadline during the solicitation phase.
- Should there be any concern by the contractor, the contractor is to submit a Request For Information (RFI) through the proper procedures to have his/her concerns resolved.
- Contractor shall field verify all existing utilities prior to any excavation for new sign post/pole foundations per SOW 5.5.
- Contractor shall remove and dispose of any existing asphalt pavement or rigid concrete. Contractor shall dispose rigid concrete at the WSMR Hughes Reclamation Area (Main Cantonment) located at the intersection of Watertown and Hughes Ave. Rigid concrete shall be free of rebar and/or all debris. Contractor shall provide a report to the COR of quantities disposed of.
- Contractor shall apply water for dust control per section 158 of the Federal Highway Administration (FP-03). Contractor shall utilize water standpipe located at LAT= 32.3692, long = -106.4790 Approximately 2 miles South of project. Metering of water usage shall be required and reported to the COR on a weekly basis by the amount of truck loads used per day.
- A borrow pit is available for use. Borrow pit is located North of Nike , LAT: 32.3890, -106.4730. COR shall be notified at least 5 working days prior to removing any material. Quantities of material removed shall be reported to the COR on a weekly basis. When finished using borrow pit, contractor shall remove any grubbed vegetation and leave side slopes at a 4H:1V or flatter slope. Approximate distance from project site is 1 miles.

Pavement Marking Notes:

- All pavement markings & striping shall be 4: wide, white or yellow as indicated on the details and plan sheets 8 and shall conform to standard highway colors.
- All pavement markings shall be installed by using Type "B" Waterborn paint with glass beads per section 634.05 of the FP-03.
- All specifications for pavement markings are as per Manual of Uniform Traffic Control Devices (MUTCD) and standard manual 2009 Edition.
- Contractor shall prepare Road surface prior to applying roadway markings per manufacture specifications.
- Flagler shall be a one way street pavement markings and roadway signs shall be placed accordingly.
- The pavement markings over the entire main cantonment shall be refreshed with Type B waterborn paint. Every stop sign shall have a 12" stop bar. Roadways with curb will not require edge line pavement markings. Pavement markings shall not cross side streets or driveways. Pavement markings consist of approximately 264,000LF of 4", 3,000LF of 12" (to include new and refreshed crosswalks) and 30EA symbols.

Traffic Sign Notes:

- All sign materials and installation shall comply with the latest edition of the Manual on Uniform Traffic Control Devices, Section 701 of NMSHTD and Plan Sheet 7.
- All sign panels shall conform to ASTM B 209. Sign panels shall be constructed of 0.125" Aluminum.
- All traffic signs shall have 2 - 1.75"x1.75" galvanized square post conforming to ASTM A 1011, grade 55.
- All sign sheeting shall comply with ASTM D4956 Type XI reflective sheeting.
- NCHRP 350 compliant breakaways sleeves shall be required on all sign installations with the exception of delineators.
- All new traffic signs, specifications and placement distances shall be per sign details and sign distance tables of the "standard highway signs" standard manual, 2009 edition.
- All new signs shall be installed at designated areas and new sign posts shall have a "slipbase system" & shall be installed at a safe clear distance from the existing curb or edge of pavement.
- All traffic posts and all signs shall be turned over to the WSMR Sign Fabricator Kasey Page 575-678-2907.

Solar Powered Hazard Identification Beacons:

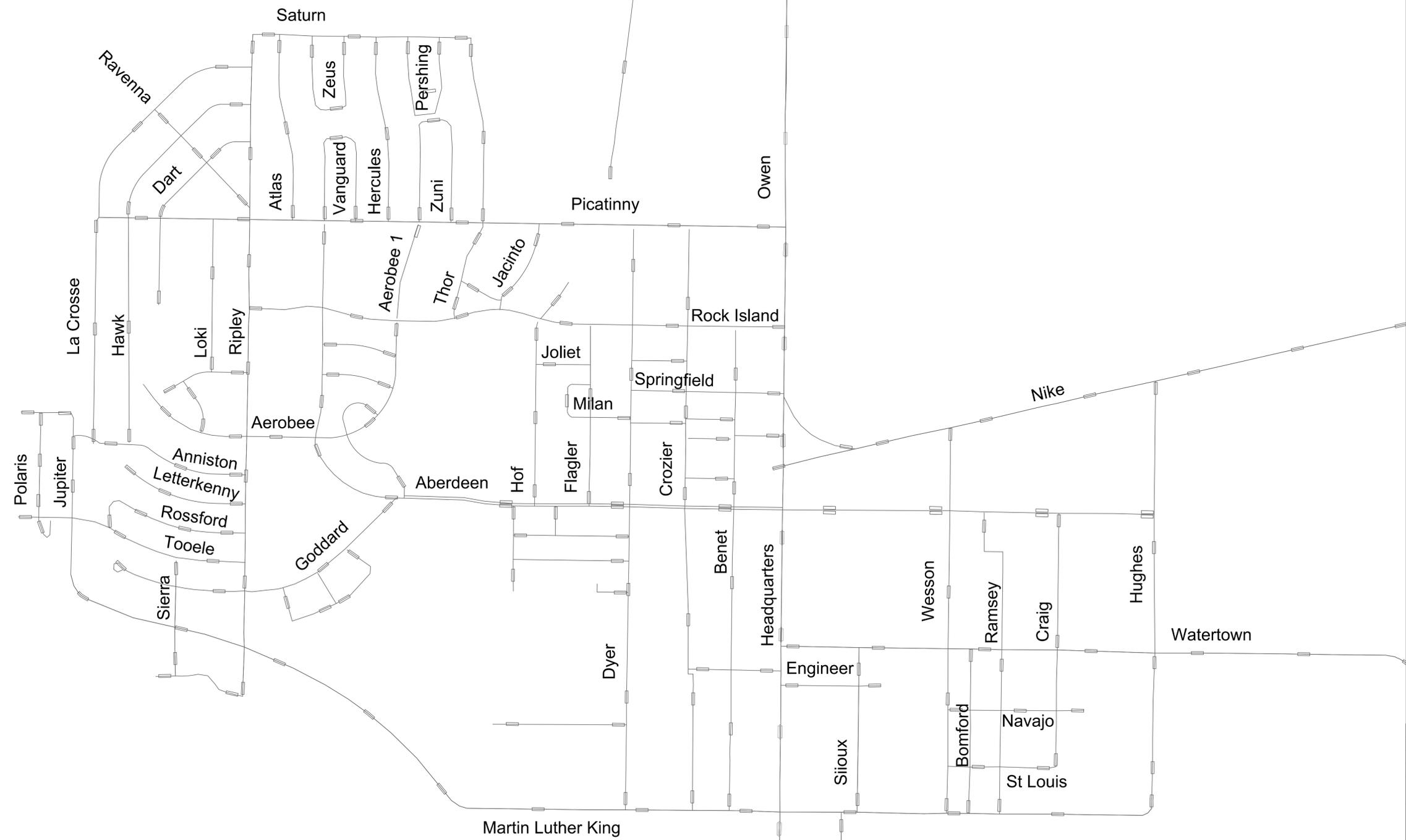
- Solar Powered Hazard Identification beacons shall be Installed per 2019 Edition, Standard Specifications for Highway and Bridge Construction section 715 Beacons and Temporary Signal Equipment and Standard NMDOT Drawings 715S-01-1/1 and 715S-03-1/1.
- All Hazard Identification Beacons shall have Vertical Double 12" Solar LED Red Flahing Warning Beacons with 36" X 36" Traffic signs Installed per MUTCD 2009 Edition section 4D, 4L.05.

Raised Crossings:

- Raised Crossings shall be placed per schedule on sheet 9.
- Raised crossing on Picatinny shall have 2EA steel concrete filled bollards on the North end of crossing. South end of crossing shall have an ADA compliant perpendicular curb ramp per NMDOT standards 608-001-2.
- All raised crossing shall meet ADA compliance and have speed hump signs, W17-1 24X24, with an advisory speed plaque (W13-1P 18X18) 10MPH located 100' from raised crossing in each direction.

**BID SET  
100% DESIGN  
DATE: DEC 2022**

9/12/2023	Added Signs at Raised Crossings	RP	
REVISIONS			
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>			
DRAWN BY	DESIGNED BY	REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST  GENERAL NOTES	
CHECKED BY			
SUBMITTED			
PROJECT MANAGER			
RECOMMENDED			
BRANCH CHIEF			
APPROVED	John Morgan	DRAWING NUMBER	PLATE
	CHIEF, ENGINEERING DIVISION	WS-85110-2022-C-GI-02	<b>02</b>
DATE	December, 2022	SCALE	NONE
		SHEET	2 OF 10



**BID SET**  
**100% DESIGN**  
**DATE: DEC 2022**

NO.	DATE	DESCRIPTION	BY	APPROVED
REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M.</b> <b>DIRECTORATE OF PUBLIC WORKS</b> <b>ENGINEERING DIVISION</b>				
DRAWN BY REP		DESIGNED BY		<b>REPAIR SIGNS/SPEED CONTROL</b> <b>WSMR MAIN POST</b>  <b>SITE PLAN</b>
CHECKED BY				
SUBMITTED				
PROJECT MANAGER RECOMMENDED				
BRANCH CHIEF				
APPROVED John Morgan		DRAWING NUMBER		PLATE
CHIEF, ENGINEERING DIVISION		WS-85110-2022-C-SP-03		<b>03</b>
DATE December, 2022		SCALE NONE		SHEET 3 OF 10

MAIN POST SIGNAGE						
Roadway	Direction	LAT	LONG	R2-1	Size	SF
Headquarters	SB	32.3713	-106.4795	35MPH	30X36	7.5
Headquarters	SB	32.3713	-106.4795	35MPH	30X36	7.5
Headquarters	SB	32.3623	-106.4774	35MPH	30X36	7.5
Headquarters	NB	32.3490	-106.4477	35MPH	30X36	7.5
Headquarters	NB	32.3537	-106.4612	35MPH	30X36	7.5
Headquarters	NB	32.3621	-106.4773	35MPH	30X36	7.5
MLK	EB	32.3730	-106.4787	25MPH	24X30	5
MLK	EB	32.3730	-106.4749	25MPH	24X30	5
MLK	EB	32.3767	-106.4945	15MPH	24X30	5
MLK	EB	32.3764	-106.4933	15MPH	24X30	5
MLK	WB	32.3731	-106.4703	25MPH	24X30	5
MLK	WB	32.3731	-106.4758	25MPH	24X30	5
MLK	WB	32.3731	-106.4801	25MPH	24X30	5
MLK	WB	32.3730	-106.4842	25MPH	24X30	5
MLK	WB	32.3768	-106.4943	15MPH	24X30	5
ABERDEEN	WB	32.3801	-106.4703	25MPH	30X36	7.5
ABERDEEN	WB	32.3800	-106.4802	25MPH	30X36	7.5
ABERDEEN	WB	32.3800	-106.4844	25MPH	30X36	7.5
ABERDEEN	WB	32.3801	-106.4882	15MPH	24X30	5
ABERDEEN	WB	32.3801	-106.4901	15MPH	24X30	5
ABERDEEN	EB	32.3799	-106.4893	15MPH	24X30	5
ABERDEEN	EB	32.3800	-106.4844	25MPH	24X30	5
Picatinny	WB	32.3862	-106.4882	15MPH	24X30	5
Picatinny	WB	32.3861	-106.4976	15MPH	24X30	5
Picatinny	EB	32.3861	-106.4907	15MPH	24X30	5
Picatinny	EB	32.3861	-106.4976	15MPH	24X30	5
ROCK ISLAND	WB	32.3840	-106.4888	15MPH	24X30	5
ROCK ISLAND	WB	32.3841	-106.4862	25MPH	24X30	5
ROCK ISLAND	WB	32.3839	-106.4837	25MPH	24X30	5
ROCK ISLAND	WB	32.3839	-106.4820	25MPH	24X30	5
ROCK ISLAND	WB	32.3840	-106.4799	25MPH	24X30	5
ROCK ISLAND	EB	32.3839	-106.4889	15MPH	24X30	5
ROCK ISLAND	EB	32.3841	-106.4862	25MPH	24X30	5
ROCK ISLAND	EB	32.3839	-106.4837	25MPH	24X30	5
ROCK ISLAND	EB	32.3840	-106.4799	25MPH	24X30	5
ROCK ISLAND	EB	32.3841	-1106.4975	15MPH	24X30	5

MAIN POST SIGNAGE						
Roadway	Direction	LAT	LONG	R2-1	Size	SF
Ripley	NB	32.3768	-106.4938	15MPH	24X30	5
Ripley	NB	32.3796	-106.4938	15MPH	24X30	5
Ripley	NB	32.3818	-106.4938	15MPH	24X30	5
Ripley	NB	32.3866	-106.4938	15MPH	24X30	5
Ripley	NB	32.3891	-106.4937	15MPH	24X30	5
Ripley	SB	32.3891	-106.4937	15MPH	24X30	5
Ripley	SB	32.3852	-106.4939	15MPH	24X30	5
Ripley	SB	32.3836	-106.4939	15MPH	24X30	5
Ripley	SB	32.3823	-106.4939	15MPH	24X30	5
Ripley	SB	32.3814	-106.4939	15MPH	24X30	5
Dyer	NB	32.3737	-106.4835	25MPH	24X30	5
Dyer	NB	32.3796	-106.4836	25MPH	24X30	5
Dyer	NB	32.3808	-106.4835	25MPH	24X30	5
Dyer	NB	32.3824	-106.4835	25MPH	24X30	5
Dyer	NB	32.3842	-106.4835	25MPH	24X30	5
Dyer	NB	32.3860	-106.4835	25MPH	24X30	5
Dyer	SB	32.3737	-106.4835	25MPH	24X30	5
Dyer	SB	32.3769	-106.4836	25MPH	24X30	5
Dyer	SB	32.3796	-106.4836	25MPH	24X30	5
Dyer	SB	32.3824	-106.4835	25MPH	24X30	5
Dyer	SB	32.3842	-106.4835	25MPH	24X30	5
Dyer	SB	32.3860	-106.4835	25MPH	24X30	5
Crozier	NB	32.3821	-106.4820	25MPH	24X30	5
Crozier	NB	32.3852	-106.4820	25MPH	24X30	5
Crozier	NB	32.3838	-106.4821	25MPH	24X30	5
Crozier	SB	32.3821	-106.4820	25MPH	24X30	5
Crozier	SB	32.3852	-106.4820	25MPH	24X30	5
Joliet	WB	32.3832	-106.4822	25MPH	24X30	5
Joliet	EB	32.3830	-106.4835	25MPH	24X30	5
Springfield	EB	32.3824	-106.4834	25MPH	24X30	5
Springfield	WB	32.3825	-106.4822	25MPH	24X30	5
Milan	WB	32.3819	-106.4848	25MPH	24X30	5
Milan	EB	32.3818	-106.4840	25MPH	24X30	5
Flagler	NB	32.3814	-106.4846	25MPH	24X30	5
Flagler	SB	32.3810	-106.4847	25MPH	24X30	5
Jacinto	NB	32.3852	-106.4863	25MPH	24X30	5
Jacinto	SB	32.3852	-106.4865	25MPH	24X30	5

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REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>				
DRAWN BY REP		DESIGNED BY		<b>REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST</b>
CHECKED BY				
SUBMITTED				
PROJECT MANAGER				
BRANCH CHIEF				<b>SIGN SCHEDULE</b>
APPROVED		DRAWING NUMBER		PLATE
John Morgan		WS-85110-2022-C-GC-04		<b>04</b>
DATE December, 2022		SCALE NONE		SHEET 4 OF 10

MAIN POST SIGNAGE						
Roadway	Direction	LAT	LONG	R2-1	Size	SF
Thor	NB	32.3854	-106.4879	25MPH	24X30	5
Thor	SB	32.3853	-106.4881	25MPH	24X30	5
Aerobee	NB	32.3850	-106.4896	15MPH	24X30	5
Aerobee	SB	32.3851	-106.4897	15MPH	24X30	5
Goddard	NB	32.3795	-106.4903	15MPH	24X30	5
Goddard	SB	32.3777	-106.4936	15MPH	24X30	5
Goddard	EB	32.3779	-106.4956	15MPH	24X30	5
Goddard	WB	32.3782	-106.4970	15MPH	24X30	5
Sioux	NB	32.3731	-106.4773	25MPH	24X30	5
Sioux	SB	32.3766	-106.4774	25MPH	24X30	5
Engineer	EB	32.3759	-106.4792	25MPH	24X30	5
Engineer	WB	32.3759	-106.4774	25MPH	24X30	5
Wesson	NB	32.3744	-106.4749	25MPH	24X30	5
Wesson	SB	32.3744	-106.4749	25MPH	24X30	5
Wesson	NB	32.3785	-106.4749	25MPH	24X30	5
Wesson	SB	32.3785	-106.4749	25MPH	24X30	5
Wesson	SB	32.3794	-106.4751	25MPH	24X30	5
Saint Louis	EB	32.3740	-106.4748	25MPH	24X30	5
Saint Louis	WB	32.3740	-106.4748	25MPH	24X30	5
Navajo	EB	32.3754	-106.4729	25MPH	24X30	5
Navajo	WB	32.3754	-106.4729	25MPH	24X30	5
Watertown	WB	32.3758	-106.4694	25MPH	24X30	5
Watertown	EB	32.3767	-106.4690	25MPH	24X30	5
Hughes	WB	32.3806	-106.4695	25MPH	24X30	5
Hughes	EB	32.3765	-106.4695	25MPH	24X30	5
Hughes	WB	32.3765	-106.4695	25MPH	24X30	5
Hughes	EB	32.3806	-106.4695	25MPH	24X30	5
Tooele	WB	32.3784	-106.4940	15MPH	24X30	5
Tooele	EB	32.3784	-106.4954	15MPH	24X30	5
Tooele	WB	32.3795	-106.4998	15MPH	24X30	5
Tooele	EB	32.3793	-106.4984	15MPH	24X30	5
Rossford	WB	32.3791	-106.4940	15MPH	24X30	5
Rossford	WB	32.3793	-106.4958	15MPH	24X30	5
Rossford	EB	32.3791	-106.4956	15MPH	24X30	5
Rossford	EB	32.3794	-106.4974	15MPH	24X30	5

MAIN POST SIGNAGE						
Roadway	Direction	LAT	LONG	R2-1	Size	SF
Letterkenny	EB	32.3798	-106.4955	15MPH	24X30	5
Letterkenny	WB	32.3799	-106.4956	15MPH	24X30	5
Letterkenny	EB	32.3807	-106.4972	15MPH	24X30	5
Anniston	WB	32.3805	-106.4941	15MPH	24X30	5
Anniston	EB	32.3804	-106.4954	15MPH	24X30	5
Anniston	WB	32.3807	-106.4957	15MPH	24X30	5
Anniston	EB	32.3810	-106.4967	15MPH	24X30	5
Anniston	EB	32.3811	-106.4981	15MPH	24X30	5
Sierra	NB	32.3773	-106.4956	15MPH	24X30	5
Sierra	SB	32.3783	-106.4957	15MPH	24X30	5
Jupiter	WB	32.3793	-106.4985	15MPH	24X30	5
Jupiter	EB	32.3793	-106.4985	15MPH	24X30	5
Jupiter	WB	32.3808	-106.4984	15MPH	24X30	5
Jupiter	EB	32.3808	-106.4984	15MPH	24X30	5
Polaris	SB	32.3813	-106.4994	15MPH	24X30	5
Polaris	NB	32.3796	-106.4993	15MPH	24X30	5
Ravenna	NB	32.3866	-106.4940	15MPH	24X30	5
Ravenna	SB	32.3878	-106.4953	15MPH	24X30	5
Ravenna	NB	32.3878	-106.4953	15MPH	24X30	5
Ravenna	SB	32.3885	-106.4964	15MPH	24X30	5
Atlas	SB	32.3902	-106.4931	15MPH	24X30	5
Saturn	WB	32.3904	-106.4926	15MPH	24X30	5
Zeus	NB	32.3902	-106.4922	15MPH	24X30	5
Zeus	EB	32.3887	-106.4917	15MPH	24X30	5
Zeus	WB	32.3887	-106.4917	15MPH	24X30	5
Zeus	SB	32.3903	-106.4914	15MPH	24X30	5
Vanguard	EB	32.3880	-106.4914	15MPH	24X30	5
Vanguard	WB	32.3880	-106.4914	15MPH	24X30	5
				<b>Total</b>	<b>137EA</b>	<b>717.5</b>

**BID SET  
100% DESIGN  
DATE: DEC 2022**

NO.	DATE	DESCRIPTION	BY	APPROVED
REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>				
DRAWN BY	DESIGNED BY	REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST		
CHECKED BY				
SUBMITTED				
PROJECT MANAGER				
RECOMMENDED		SIGN SCHEDULE CONTINUED		
BRANCH CHIEF				
APPROVED		DRAWING NUMBER	PLATE	
	John Morgan	WS-85110-2022-C-GC-05		<b>05</b>
DATE	December, 2022	SCALE	NONE	
		SHEET	5	OF 10

### ADDITIONAL MAIN POST SIGNAGE

Roadway	Description	LAT	LONG	Size	SF
Flagler	Do Not Enter R5-1	32.38	-106.4846	30X30	6.25
Flagler	Do Not Enter R5-1	32.3801	-106.4847	30X30	6.25
Flagler	One Way R6-1	32.3802	-106.4846	36X12	3
Flagler	One Way R6-1	32.3806	-106.4847	36X12	3
Flagler	One Way R6-1	32.3811	-106.4846	36X12	3
Flagler	One Way R6-1	32.3813	-106.4847	36X12	3
Flagler	One Way R6-1	32.3817	-106.4847	36X12	3
Flagler	One Way R6-1	32.3814	-106.4846	36X12	3
Flagler	Wrong Way R5-1a	32.3817	-106.4847	36X24	6
Flagler	Wrong Way R5-1a	32.3817	-106.4846	36X24	6
Flagler	Begin One Way	32.3817	-106.4846	24X30	5
Ripley	Stop R1-1	32.3902	-106.4937	30X30	6.25
Saturn	Stop R1-1	32.3904	-106.4936	30X30	6.25
			<b>Total</b>	<b>13EA</b>	<b>60</b>

### UPGRADED SOLAR POWERED (LED) MAIN POST SIGNAGE

Roadway	Direction	LAT	LONG	Size	SF	
Picatinny	Stop R1-1	32.3861	-106.4799	30X30	6.25	
Rock Island	Stop R1-1	32.3839	-106.4797	30X30	6.25	
Aberdeen	Stop R1-1	32.3798	-106.4797	30X30	6.25	
MLK	Stop R1-1	32.3729	-106.4796	30X30	6.25	
Picatinny	25MPH R2-1	32.3862	-106.4808	24X30	5	
Rock Island	25MPH R2-1	32.3839	-106.4837	24X30	5	
Aberdeen	25MPH R2-1	32.3800	-106.4844	24X30	5	
MLK	25MPH R2-1	32.3730	-106.4842	24X30	5	
Headquarters SB	35MPH R2-1	32.3828	-106.4794	30X36	7.5	
Headquarters NB	35MPH R2-1	32.3692	-106.4794	30X36	7.5	
Headquarters SB	45MPH R2-1	32.3688	-106.4795	30X36	7.5	
Headquarters SB	35MPH R2-1	32.3757	-106.4796	30X36	7.5	
Headquarters NB	45MPH R2-1	32.3474	-106.4425	30X36	7.5	
Headquarters NB	35MPH R2-1	32.3828	-106.4794	30X36	7.5	
Headquarters	Yield to Ped W11-2	32.3854	-106.4796	24X24	9	
Headquarters	Yield to Ped W11-2	32.3854	-106.4796	24X24	9	
Headquarters	Yield to Ped W11-2	32.3761	-106.4794	24X24	9	
Headquarters	Yield to Ped W11-2	32.3761	-106.4794	24X24	9	
				<b>Total</b>	<b>18EA</b>	<b>126</b>



Figure 1. Traffic Signs with LED Lighting

BID SET  
100% DESIGN  
DATE: DEC 2022

<input checked="" type="checkbox"/>	9/12/2023 Clarified required Pedestrian Sign	RP		
NO.	DATE	DESCRIPTION	BY	APPROVED
REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>				
DRAWN BY	DESIGNED BY	REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST  ADDITIONAL SIGN SCHEDULE		
CHECKED BY				
SUBMITTED				
PROJECT MANAGER				
RECOMMENDED				
BRANCH CHIEF				
APPROVED	John Morgan	DRAWING NUMBER	<b>06</b>	
	CHIEF, ENGINEERING DIVISION	WS-85110-2022-C-GC-06		
DATE	December, 2022	SCALE	NONE	
		SHEET	6 OF 10	

### Flashing Beacon Radar Poles Schedule

Roadway	LAT	LONG	Direction	QTY (EA)	Speed
Headquarters	32.3575	-106.4686	SB	1	35MPH
Headquarters	32.3510	-106.4523	NB	1	35MPH
Headquarters	32.3713	-106.4796	SB	1	35MPH
Headquarters	32.3652	-106.4793	NB	1	35MPH
Headquarters	32.3836	-106.4796	SB	1	35MPH
Headquarters	32.3801	-106.4793	NB	1	35MPH
Picatinny	32.3861	-106.4840	EB	1	25MPH
Picatinny	32.3862	-106.4889	WB	1	15MPH
Rock Island	32.3840	-106.4829	WB	1	25MPH
Rock Island	32.3839	-106.4907	EB	1	15MPH
Aberdeen	32.3800	-106.4818	EB	1	25MPH
Aberdeen	32.3801	-106.4900	WB	1	15MPH
MLK	32.3731	-106.4849	EB	1	25MPH
MLK	32.3462	-106.4925	WB	1	15MPH
Ripley	32.3806	-106.4938	NB	1	15MPH
Ripley	32.3837	-106.4939	SB	1	15MPH



Figure 3. Solar Powered Radar Speed Limit Sign

**BID SET  
100% DESIGN  
DATE: DEC 2022**

9/12/2023	Clarified Speed Limit	RP	
NO.	DATE	DESCRIPTION	BY
APPROVED			
REVISIONS			
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>			
DRAWN BY	DESIGNED BY	REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST  RADAR SIGN SCHEDULE	
CHECKED BY	-		
SUBMITTED	-		
PROJECT MANAGER	-		
RECOMMENDED	-		
APPROVED	John Morgan	DRAWING NUMBER	PLATE
DATE	December, 2022	SCALE	NONE
		WS-85110-2022-C-GC-07	<b>07</b>
		SHEET 7 OF 10	

### Traffic Sign Removal Schedule

Roadway	Direction	Description	LAT	LONG
MLK	EB	30MPH	32.3767	-106.4945
MLK	WB	30MPH	32.3730	-106.4842
MLK	WB	25MPH	32.3768	-106.4943
ABERDEEN	EB	30MPH	32.3799	-106.4893
ABERDEEN	EB	30MPH	32.3800	-106.4844
ROCK ISLAND	EB	25MPH	32.3839	-106.4889
Ripley	NB	25MPH	32.3768	-106.4938
Ripley	NB	25MPH	32.3866	-106.4938
Joliet	WB	10MPH	32.3832	-106.4822
Springfield	EB	15MPH	32.3824	-106.4834
Milan	WB	10MPH	32.3819	-106.4848
Goddard	NB	20MPH	32.3795	-106.4903
Goddard	SB	20MPH	32.3777	-106.4936
Saint Louis	EB	20MPH	32.3740	-106.4748
Anniston	WB	15MPH	32.3805	-106.4941
Sierra	NB	15MPH	32.3773	-106.4956
Headquarters	SB	45MPH	32.3713	-106.4795
Headquarters	SB	45MPH	32.3713	-106.4795
Headquarters	SB	55MPH	32.3623	-106.4774
Headquarters	NB	55MPH	32.3490	-106.4477
Headquarters	NB	55MPH	32.3537	-106.4612
Headquarters	NB	45MPH	32.3621	-106.4773
MLK	EB	35MPH	32.3730	-106.4787
MLK	EB	35MPH	32.3730	-106.4749
MLK	EB	30MPH	32.3764	-106.4933
MLK	WB	35MPH	32.3731	-106.4703
MLK	WB	35MPH	32.3731	-106.4758
MLK	WB	30MPH	32.3731	-106.4801
ABERDEEN	WB	30MPH	32.3801	-106.4703
ABERDEEN	WB	30MPH	32.3800	-106.4802

### Traffic Sign Removal Schedule

ABERDEEN	WB	30MPH	32.3800	-106.4844
ABERDEEN	WB	25MPH	32.3801	-106.4882
ABERDEEN	WB	25MPH	32.3801	-106.4901
Picatinny	WB	25MPH	32.3862	-106.4882
Picatinny	WB	25MPH	32.3861	-106.4976
Picatinny	EB	25MPH	32.3861	-106.4907
Picatinny	EB	25MPH	32.3861	-106.4976
ROCK ISLAND	WB	25MPH	32.3840	-106.4888
ROCK ISLAND	EB	25MPH	32.3841	-1106.4975
Ripley	NB	25MPH	32.3796	-106.4938
Ripley	NB	25MPH	32.3818	-106.4938
Ripley	NB	25MPH	32.3891	-106.4937
Ripley	SB	25MPH	32.3891	-106.4937
Ripley	SB	25MPH	32.3852	-106.4939
Ripley	SB	25MPH	32.3836	-106.4939
Ripley	SB	25MPH	32.3823	-106.4939
Ripley	SB	25MPH	32.3814	-106.4939
Dyer	NB	30MPH	32.3737	-106.4835
Watertown	WB	30MPH	32.3758	-106.4694
Watertown	EB	30MPH	32.3767	-106.4690
Hughes	WB	30MPH	32.3806	-106.4695
Hughes	EB	30MPH	32.3765	-106.4695
Hughes	WB	30MPH	32.3765	-106.4695
Hughes	EB	30MPH	32.3806	-106.4695
Zeus	EB	10MPH	32.3887	-106.4917
Zeus	WB	10MPH	32.3887	-106.4917
Vanguard	EB	10MPH	32.3880	-106.4914
Vanguard	WB	10MPH	32.3880	-106.4914

**BID SET  
100% DESIGN  
DATE: DEC 2022**

NO.	DATE	DESCRIPTION	BY	APPROVED
REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>				
DRAWN BY REP		DESIGNED BY		
CHECKED BY		PROJECT MANAGER		
SUBMITTED		RECOMMENDED		
BRANCH CHIEF		APPROVED		
John Morgan		DRAWING NUMBER		PLATE
CHIEF, ENGINEERING DIVISION		WS-85110-2022-C-D-08		<b>08</b>
DATE December, 2022		SCALE NONE		SHEET 8 OF 10

REPAIR SIGNS/SPEED CONTROL WSMR  
MAIN POST

Removals

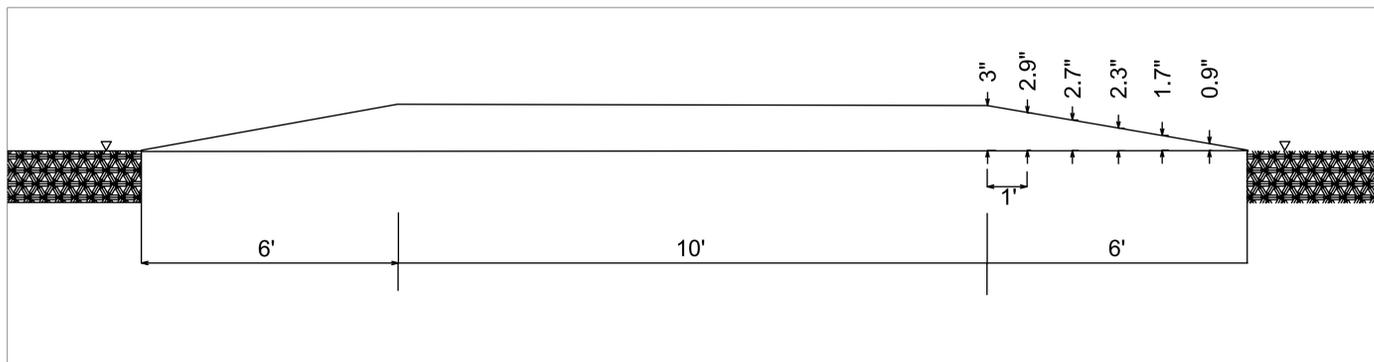


Figure 4. Section A-A

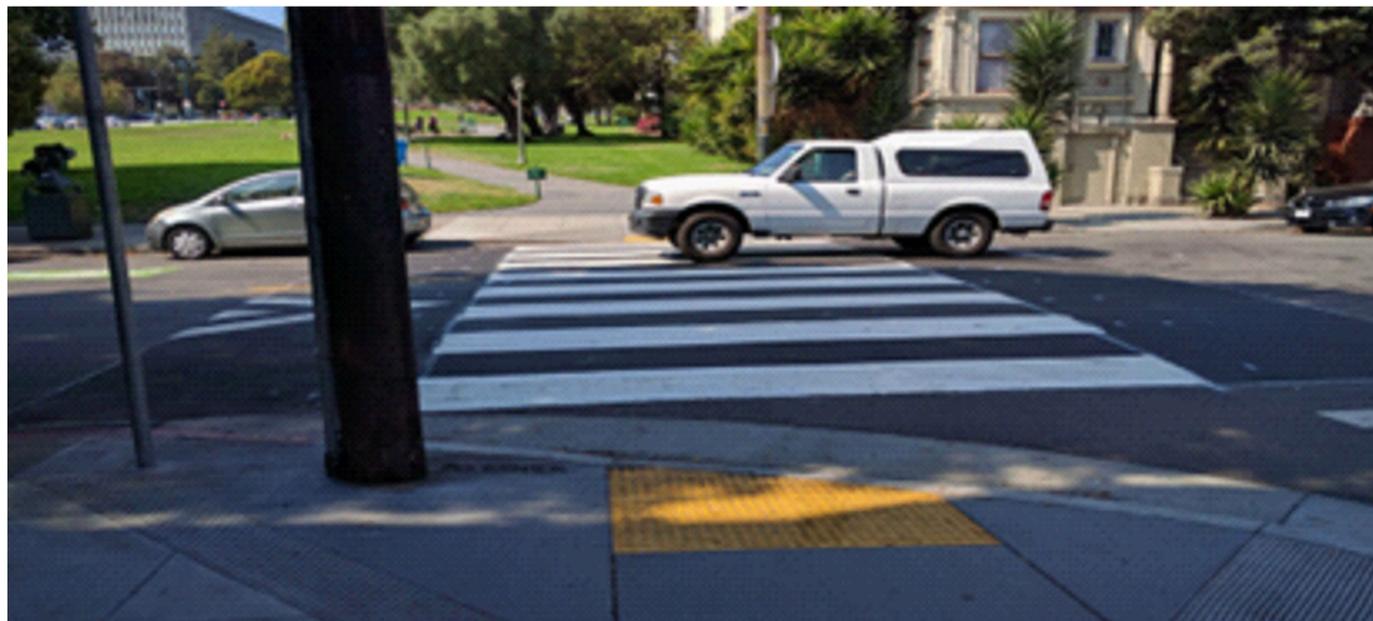


Figure 6. Raised Crossing Example

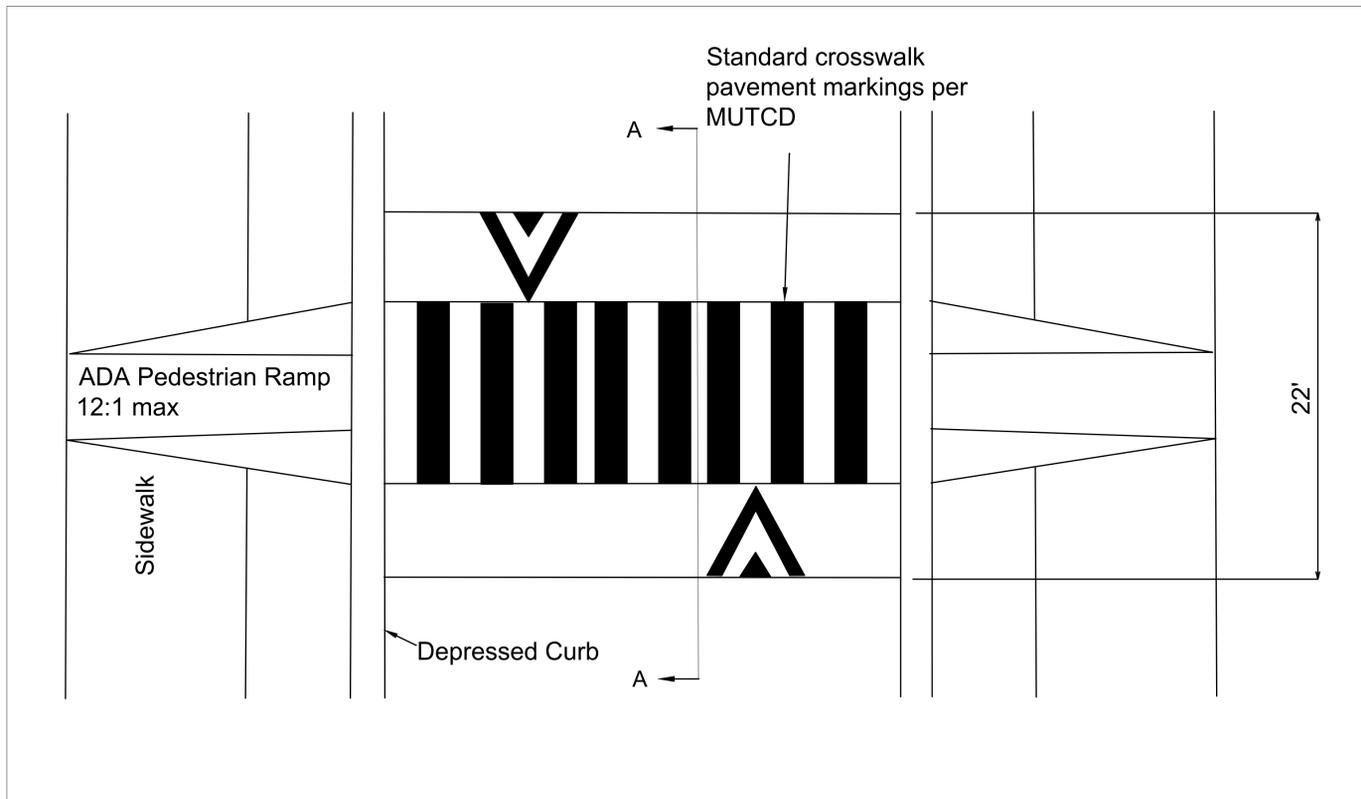


Figure 5. Raised Crossing

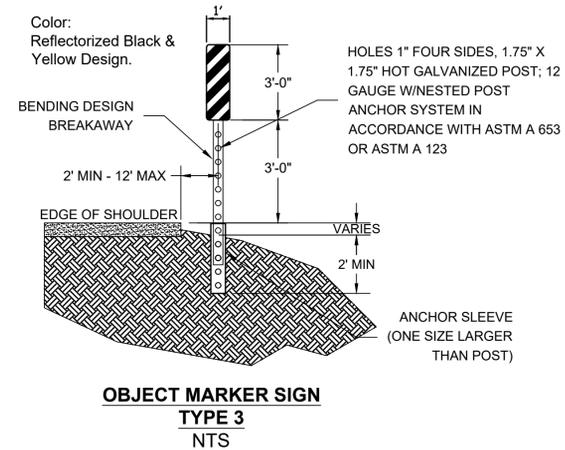
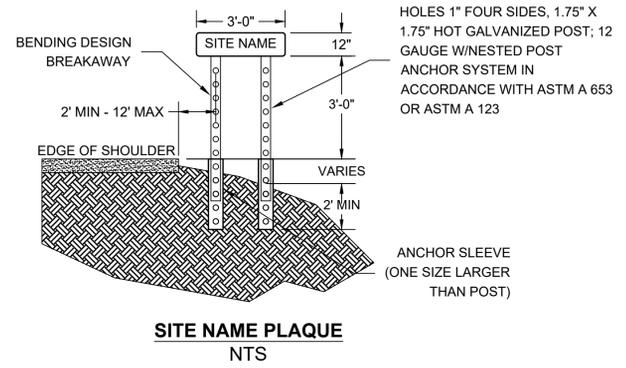
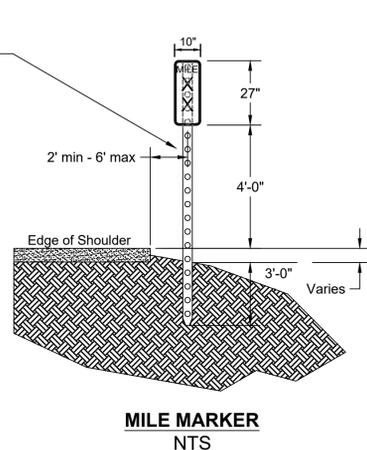
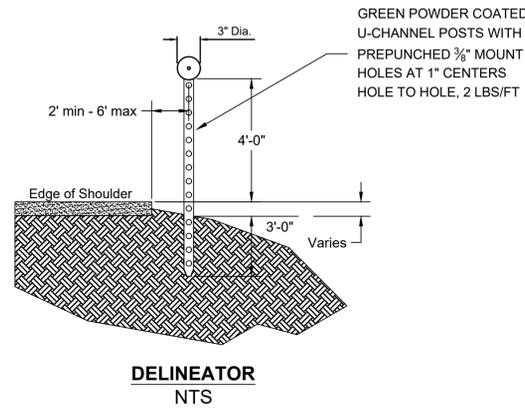
General Notes:

1. Raised crossing at Picatinny shall have an ADA compliant pedestrian ramp on the south end of crossing and 2EA concrete filled steel bollards on the north end of crossing. Bollards shall be installed per manufactures recommendations.
- 2.

Raised Crossing Schedule			
Roadway	LAT	LONG	Edge of Curb to edge of Curb (LF)
Picatinny	32.3862	-106.4826	45
Wingate	32.3850	-106.4857	40
Goddard	32.3784	-106.4917	24

BID SET  
100% DESIGN  
DATE: DEC 2022

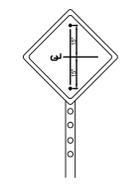
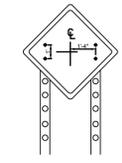
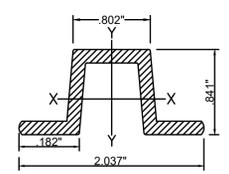
NO.	DATE	DESCRIPTION	BY	APPROVED
REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M. DIRECTORATE OF PUBLIC WORKS ENGINEERING DIVISION</b>				
DRAWN BY	DESIGNED BY	REPAIR SIGNS/SPEED CONTROL WSMR MAIN POST  RAISED CROSSINGS		
CHECKED BY				
SUBMITTED				
PROJECT MANAGER				
RECOMMENDED				
BRANCH CHIEF		DRAWING NUMBER	PLATE	
APPROVED	John Morgan	WS-85110-2022-C-C-09		09*
DATE	December, 2022	SCALE	NONE	
		SHEET	9	OF 10



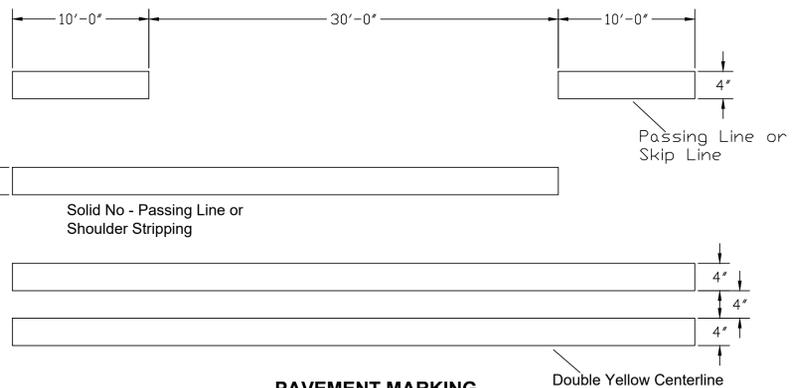
MIN. SIGN POST WEIGHTS:  
 Double Post Configuration 2.50 lbs/ft.  
 Single Post \* 4.00 lbs/ft.  
 Delineator \* 2.00 lbs/ft.  
 Mile Markers \* 2.00 lbs/ft.

SIGN POST NOTES:  
 The weight of each sign post before punching is 2.00, 2.50 or 4.00 lbs/ft. The sign post is punched with 0.375" diameter holes on 1.0" centers full length. First hole and last hole 1.0" from end of post.

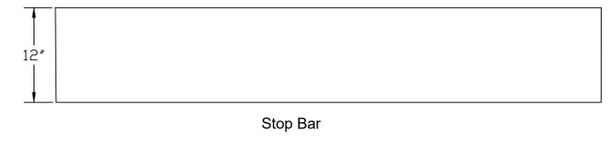
Stripe Notes:  
 1. All paint shall comply with the Manual of Uniform Traffic Control Devices.  
 2. Apply Type "B" Waterborn Paint with glass beads per FP-03.



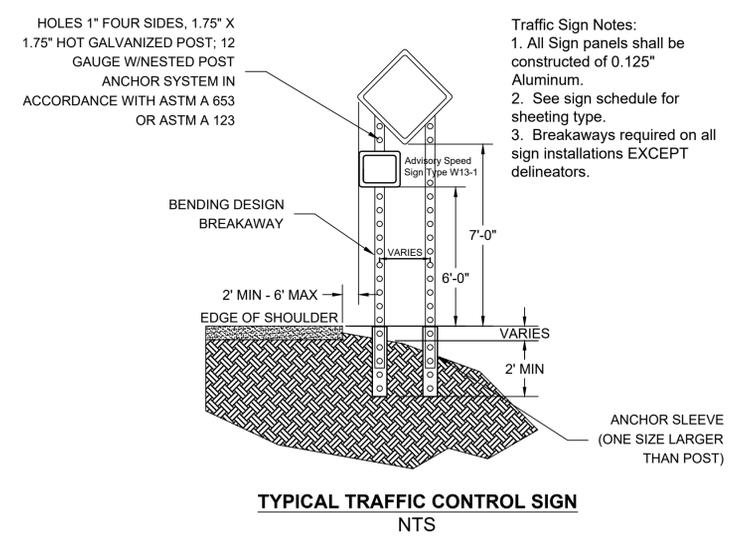
**BOLT CONFIGURATION**  
NTS



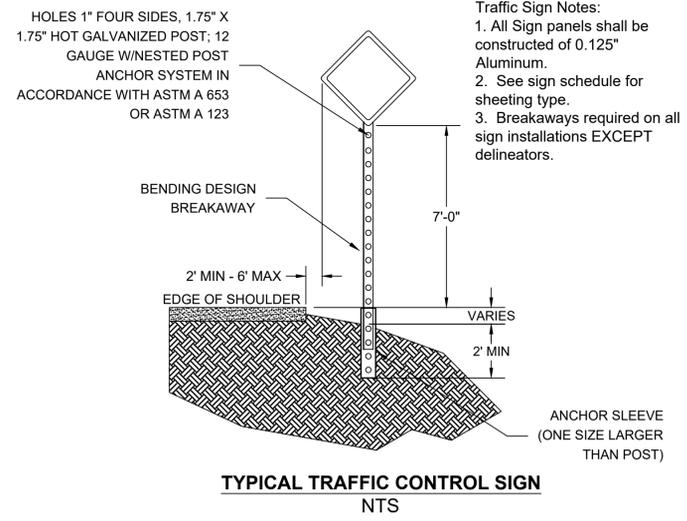
**PAVEMENT MARKING**  
Typical Shoulder/Center Stripe  
Dimensions  
NTS



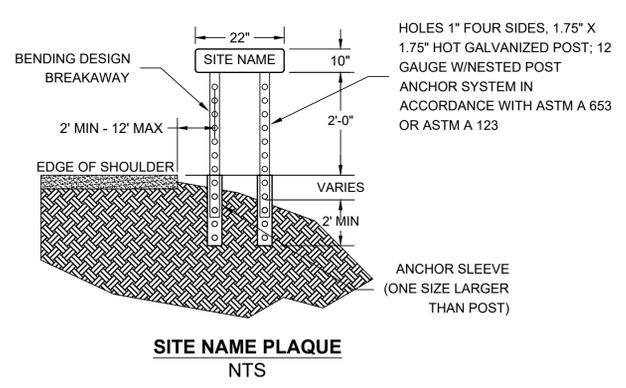
Stop Bar



Traffic Sign Notes:  
 1. All Sign panels shall be constructed of 0.125" Aluminum.  
 2. See sign schedule for sheeting type.  
 3. Breakaways required on all sign installations EXCEPT delineators.



Traffic Sign Notes:  
 1. All Sign panels shall be constructed of 0.125" Aluminum.  
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HOLES 1" FOUR SIDES, 1.75" X 1.75" HOT GALVANIZED POST; 12 GAUGE W/NESTED POST ANCHOR SYSTEM IN ACCORDANCE WITH ASTM A 653 OR ASTM A 123

**BID SET**  
**100% DESIGN**  
**DATE: DEC 2022**

NO.	DATE	DESCRIPTION	BY	APPROVED
REVISIONS				
<b>WHITE SANDS MISSILE RANGE, N.M.</b> <b>DIRECTORATE OF PUBLIC WORKS</b> <b>ENGINEERING DIVISION</b>				
DRAWN BY	DESIGNED BY	REPAIR SIGNS/SPEED CONTROL		
CHECKED BY	REP	WSMR MAIN POST		
SUBMITTED		ROADWAY TRAFFIC SIGN/PAVEMENT MARKING DETAIL		
PROJECT MANAGER				
RECOMMENDED				
BRANCH CHIEF				
APPROVED	John Morgan	DRAWING NUMBER	PLATE	
CHIEF, ENGINEERING DIVISION		WS-85110-2022-C-DT-10	10	
DATE	December, 2022	SCALE	NONE	
		SHEET	10	OF 10

## Pavement Markings

LOCATION	SECTION	LENGTH	SLD (W)	SLD (Y)	DSL D	BRK (Y)	BRK (W)	ARR (LF)	ARR (RT)	DBL ARR	Crosswalk	12" Stop Bar	Pecker
ABERDEEN	1-1.	3035	6070		6070		1517.5						
ABERDEEN	1-2.	2772	5544		5544		1386				1		
ABERDEEN	1-3.	440	538		709								
ABERDEEN 2	1-1.	952	1904		1904						1		
Aerobee	2	515			1030						1	12	
Anniston	1												10
Atlas	1										1	20	
Benet		475			950								12
Crozier	1												12
Crozier	2	1430			2860						3	20	
Crozier	2A	793			1586								20
Dart	1										2	30	
Dart	2										2	30	
Dart	3										2	30	
Dyer	1	2456			4912								24
Dyer	2	1431			2862								24
Dyer	3	780			1560								24
Engineer	1												24
Flagler	1										1	18	
Flagler	4	300			600								24
Goddard	1	1519			3038							2	12
Hawk	1										2	30	
Hawk	2										2	30	
Hawk	3										2	30	
Hawk	4										2	30	
Headquarters	1-1B	1324	2648			331							
Headquarters	1-2.	12866	25732		3438	1939.5							
Headquarters	1-3.	1290	2655	1287		177.5	290	1					
Headquarters	1-4.	4935	10947	9870	228	4935	4935	15	12		6	33	105
Hercules													20
Hoff	1	1474			2948								24
Hughes	1	1340			2680								46
Hughes	2	2240			4480								12
Jacinto	1	780			1560								10
Joliet	1												20
Jupiter	1										1	10	
Jupiter	2										1	10	
La Crosse	La Crosse										3	30	
La Crosse	1										2	15	
Letterkenny	1										3	22	
Loki	1										2	30	
Loki	2										1	15	

Milan	1	460		920								20
Milan	2	293		586								20
MLK	1	925		1778								22
MLK	1-A	385		705								28
MLK	1-B	2956	5912	5820								14
MLK	2	4785	9570	9570								14
MLK	3	670	1430	1340			1		1			
MLK	4	1037	2074	2074								
Navajo	1	1140		2280								12
Pershing												20
Picatinny	1	4435	8870	8870						5		18
Picatinny	2	1249		2498						7		40
Polaris	1									2		20
Polaris	2									2		20
Ravenna	1									6		30
Red River	1	1309		2618						7		24
Ripley	1	1011	2022	2022								40
Ripley	2	3523	7046	7046						4		28
Ripley	3	1526		3052						2		28
ROCK ISLAND	1	4421	380	8842						6		24
Rossford	1									1		10
Saint Louis	1	846		1692								12
Sierra	1											20
Sierra	2									1		20
Sioux	1											24
Springfield	1	430		860								20
Springfield	3	360		720								24
Thor	1											10
Thor EXT-1	EXT-1	808		1616								24
Tooele	1									1		10
Tooele	1A									2		
Vanguard	1											30
Watertown	1	1098		2196								
Watertown	2	6293	12586	1316	1408.75							12
Watertown	3	3032	6064	6064								24
Wesson	1											24
Wesson	2											24
Wesson	3											12
Wesson	4A											12
Zeus	1											20
			111,992	11,157	123,444	8,792	8,129	17	12	1	89	1,517