ADDENDUM #1

28 FEBRUARY 2017
NUMBER OF PAGES:

NOTICE:

This addendum is issued to modify, explain or correct the original drawings, specifications and / or previous addenda and is hereby made part of the Contract Documents. Please attach this Addendum to the specifications in your possession and note receipt of the Addendum on the first page of your bid.

This addendum includes all previous amendments and answers to questions raised during the bid process.

1. Q: Can the Contractor shoot the grade elevations or shall it be done by a PLS / Engineer?
   A: The Contractor may shoot the grade elevations.

2. Q: Who will do the concrete testing?
   A: The City will handle the concrete testing separately. Contractor to notify Engineer in advance when pours are to be executed for coordination purposes.

3. Q: If poor bearing capacity is encountered in the subsurface conditions, does the Contractor get paid for additional core-out and aggregate that may be needed?
   A: Utilize the Alternate Items: A3, A4 and A5 to designate pricing for each in the event that poor subsurface conditions are encountered. It is expected that the soils at this site have sufficient bearing capacity; however, if soft spots are found, Engineer will direct quantities to be cored-out and replaced with aggregate & geotextile fabric.

4. Q: Can the detectable warnings be plastic or concrete?
   A: The detectable warnings shall be cast iron due to their resiliency if fire trucks drive over them.

5. Q: What color do you want for the concrete pigment?
   A: List the pigment pricing for the main slab separately under the alternate item A1. The color shall be Brickform, Liquid Integral Color LC2255 “Coachella Sand” (attached).

6. See updated Page #13 for addition of alternate bid item A5 to address any needed core-out for soft areas.

7. See attached concrete mix design from Bard Materials, omitted from original bid document.

8. See updated Sheet 2 and Sheet 4 of drawing set for further details.

9. See attached written specifications for aggregate, removal, placement of concrete, sealant and alternate colorant.

End of Addendum

GALENA FIRE DEPARTMENT – FIRE STATION RAMP PROJECT - Bid date: 7 March 2017

ITEM	BID ITEMS	UNIT	QUANTITY	UNIT COST	AMOUNT
	General				
1	Mobilization, Bonds, Insurance & Construction Staking	LS	1		
2	Traffic Control	LS	1		
	Ramp Reconstruction				
3	Unclassified excavation including saw cutting, approximately 3550 square feet of main ramp	LS	1		
4	Crushed aggregate base course CA-10 (88 CY)	TONS	120		
5	PCC Pavement, 9-inch thickness, with #6 x 30 inch epoxy dowels @ 2 feet centers, expansion joints and fiber added	SF	3550		
	Sidewalk				
6	PCC Sidewalk, Exposed Aggregate, 7-inch thickness, Remove & Replace, with expansion joint at back of curb, color to match downtown sidewalk standard	SF	425		
7	Detectable Warning, Cast Iron Plates	SF	12		
	Curb & Gutter				
8	PCC Depressed Curb & Gutter, Remove & Replace, with #5 x 30 inch epoxy dowels @ 2 feet centers on street side	LF	87		
	Miscellaneous				
9	Remove Limestone Blocks (5.3 LF), replace with mountable curb	LF	5.3		
				TOTALS:	
	ALTERNATE OPTIONS				
A1	Concrete Pigment	LS	1		
A2	PCC Street, 9-inch, remove & replace, with #6 x 30” epoxy dowels @ 2 feet centers	SF	55		
A3	3-inch Breaker Run	TONS	100		
A4	Geotextile Fabric – ATSM D3776, (Mod)=min. 6.0 oz/sq. yd., ATSM D4632 Grab Strength=160 lb. min.	SY	395		
A5	Excavation & Disposal – Core-out for soft areas due to poor bearing capacity	CY	50		
				TOTALS:	

BRICKFORM LIQUID INTEGRAL COLOR

Color Cards

The colors on this chart approximate laboratory samples of troweled concrete made using Type II Gray Portland Cement, Silica Sand, and Water with a 4-inch slump. Final colors may vary so produce jobsite samples to ensure consistent results. Custom color matching is available. Disclaimer: This digital color card should be used as a general guide, not a definitive indicator of final color. Shades and hues can vary depending on screen settings. When planning a project, consult a physical color card for a better indication of potential color. Create a representative mockup before any project to better account for the effects of conditions, material, and techniques that may alter the final appearance or color.

LC-2310 Mesa Buff	LC-2115 Aspen	LC-2120 Pewter	LC-2225 Charcoal	LC-0310 Cream Beige
LC-2230 Desert Sand	LC-2235 Terra Cotta	LC-2240 Brick Red	LC-2245 Limestone	LC-2250 Sombrero Buff
LC-2255 Coachella Sand	LC-2360 San Diego Buff	LC-2165 Coffee	LC-2170 Phoenix Tan	LC-1015 Blush Beige
LC-1090 Sun Buff	LC-0250 Oyster White	LC-2275 Porcelain Gray	LC-2280 French Gray	LC-2285 Dark Gray
LC-2390 Willow Green	LC-2295 Dustry Mauve	LC-2200 Quarry Red	LC-2350 Sedona Red	

CORPORATE HEADQUARTERS 4050 Color Plant Road, Springfield, IL 62702 | P: 217.522.3112 | Toll-free: 800.624.0261 | Fax: 800.624.3147

WEST COAST FACILITY 360 S. Lilac Ave, Rialto, CA 92376 | P: 909.873.9444 | Toll-free: 866.747.2656 | Fax: 909.874.9444

www.brickform.com

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SPECIFICATIONS

1.0 AGGREGATE BASE COURSE

Crushed aggregate base course shall consist of crushed stone or crushed gravel and be furnished in accordance with Section 1004 of the Standard Specifications for Road and Bridge Construction. Crushed aggregate base course shall conform to Gradation CA-10.

Aggregate for base course for sidewalks, curb and gutter shall be considered incidental to the unit price bid for sidewalk, curb and gutter.

2.0 REMOVAL OF EXISTING PAVEMENT AND APPURTENANCES

This work shall consist of removing curb and gutter, driveway and sidewalk pavement at locations as shown on plans or requested by ENGINEER. The work shall be performed according to Sections 423, 424 and 440. The pavement shall be saw-cut at the removal limits. The sawcuts shall be full depth and lines shall be straight and as close to perpendicular to traffic flow as possible. Removal shall include excavating enough earth or aggregate below the existing pavement to a depth that will permit construction of a full depth pavement.

3.0 PLACEMENT OF CONCRETE

Before placing concrete, all equipment, forms, ground, reinforcements, and other surfaces with which the concrete will come in contact are to be thoroughly cleaned of all debris, ice, and water. Ground shall be wetted prior to placement of concrete on it.

Ready mixed concrete shall be batched, mixed, and delivered in accordance with ASTM C94 and ACI 304.

Concrete shall be deposited in approximately horizontal layers not to exceed 18 inches in thickness. Each layer shall be well worked into the preceding layer while both layers are still soft. All concrete shall be compacted with mechanical vibration equipment.

Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to rehandling or flowing. The maximum allowable lateral movement of the concrete after being deposited is three feet. When concrete placement is started, it shall be carried on as a continuous operation until the placing of the section or panel is completed.

All concrete shall be maintained in a moist condition for seven days by free water, wet covering, or curing compound.

When atmospheric temperature exceeds 80°F during concrete placement, the provisions of ACI 305 shall be followed.

Cold weather concreting shall conform to all requirements of ACI 306.1. Cold weather is defined as a period when, for more than three successive days, the average daily temperature drops below 40°F. The average daily temperature is the average of the highest and lowest

temperature during the period from midnight to midnight. When temperatures above 50°F occur during more than half of any 24 hour period, the period will no longer be regarded as cold weather.

After the curing period, the temperature of the concrete shall be reduced uniformly at a rate not to exceed 20°F per 24 hours. The use of salt or other chemical admixtures for the prevention of freezing is prohibited.

The top surfaces of the main slab shall be screeded, floated, and then steel troweled to a smooth, dense finish and then be broomed. All concrete surfaces shall have all fins, burrs, etc. removed by grinding, wire brushed, or tapping off with a hammer as required to be left in a smooth condition.

When placing new concrete adjacent to existing concrete, the existing concrete shall be thoroughly roughened, cleaned and saturated with water 24 hours before pouring new concrete. Existing concrete is defined as concrete more than six months old. At time of new pour, remove any standing water and a bonding agent equal to THOROBOND by Standard Dry Wall Products, Inc., Sonocrete by Sonneborn Contech Co., or equal shall be applied in accordance with manufacturer's recommendations.

When patching existing concrete, remove poor concrete until firm hard concrete is exposed, roughen and clean surface of the existing concrete and clean any exposed reinforcing bars, and pour new concrete. Concrete finish to match existing concrete. New concrete shall be mixed according to manufacturer's instructions, included. Concrete shall not be air entrained.

4.0 SEALING

Apply one coat of sealer as soon as practicable after finishing. If a curing compound is used, CONTRACTOR shall verify compatibility with sealer.

At completion of project, clean surface thoroughly with detergent and rinse. Apply a second coat of sealer in accordance with manufacturer's instructions.

If detergent and rinse does not remove all dirt and staining, acid etch or shot blast surface to obtain clean and uniform surface. Apply two coats of sealer following manufacturer's directions.

CONTRACTOR is responsible for protection of floor slabs from staining or other damage during the construction period.

5.0 ALTERNATE CONCRETE COLOR FOR MAIN SLAB

Where shown on the drawings, concrete pavement shall be colored. Coloring admixture shall conform to ASTM C979, synthetic mineral-oxide pigments, or colored water reducing admixtures; color stable, non-fading, and resistant to lime and other alkalis. The color shall be Brickform's Integral Color #LC-2255, "Coachella Sand".

Color shall be introduced after the water and aggregate has been added to the concrete mix. Follow manufacturer's instructions.

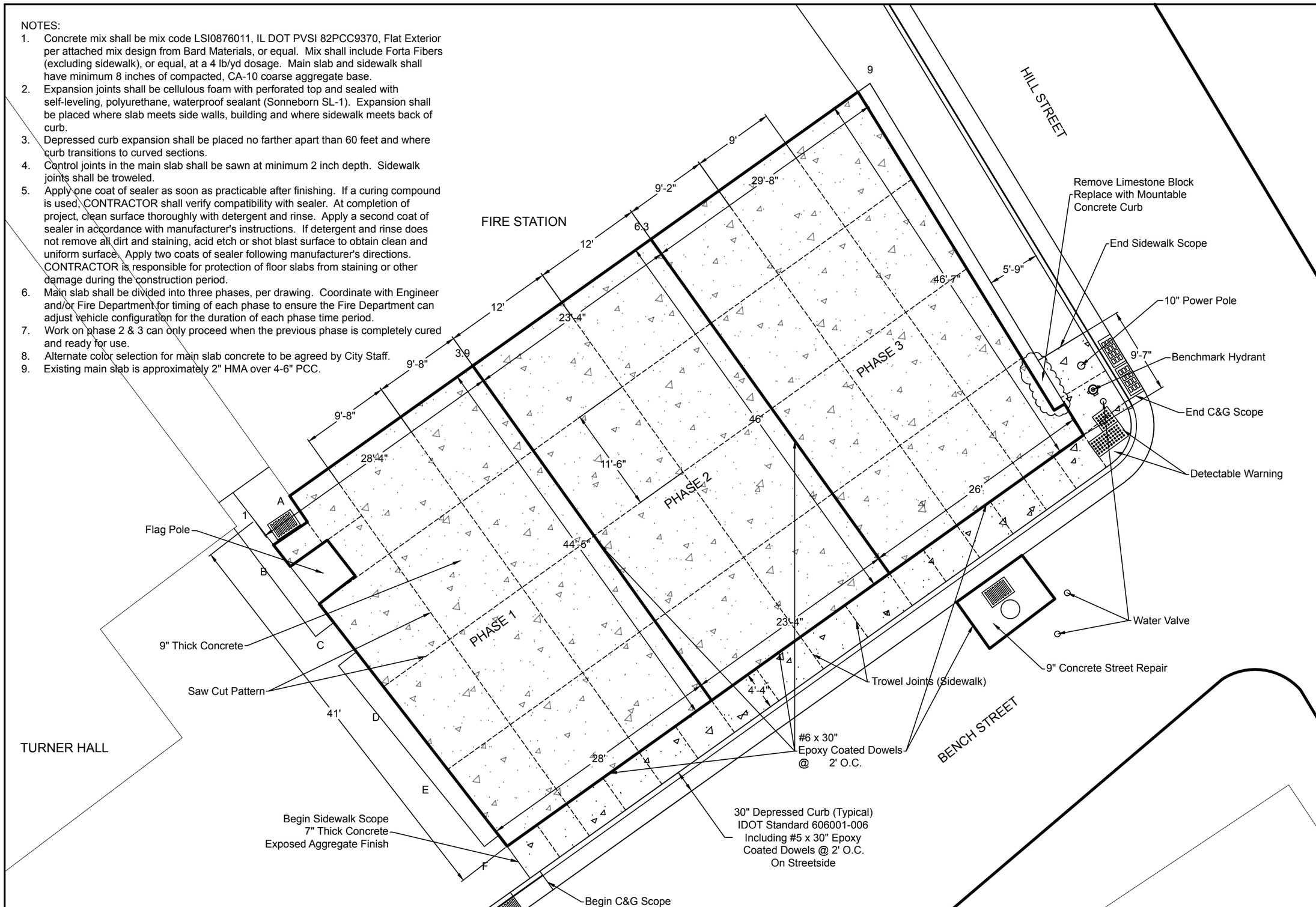
Protect all adjoining surfaces from colored concrete and sealer with polyethylene as a minimum. Immediately following placing of concrete, apply a light broom finish to paved areas in a perpendicular direction of traffic, or broadcast one light application of colored hardener to concrete surface to achieve a sandpaper look.

Apply clear sealer for colored pavements: Butterfield Clear Guard, or approved equal. Apply two coats in continuous operations according to manufacturer's written instructions. Allow first coat to dry before applying second coat.

All costs including labor, material, and other .miscellaneous work associated with colored pavement shall be included in the unit price bid for 9-inch Colored Concrete Pavement.

NOTES:

1. Concrete mix shall be mix code LSI0876011, IL DOT PVSI 82PCC9370, Flat Exterior per attached mix design from Bard Materials, or equal. Mix shall include Forta Fibers (excluding sidewalk), or equal, at a 4 lb/yd dosage. Main slab and sidewalk shall have minimum 8 inches of compacted, CA-10 coarse aggregate base.
2. Expansion joints shall be cellulous foam with perforated top and sealed with self-leveling, polyurethane, waterproof sealant (Sonneborn SL-1). Expansion shall be placed where slab meets side walls, building and where sidewalk meets back of curb.
3. Depressed curb expansion shall be placed no farther apart than 60 feet and where curb transitions to curved sections.
4. Control joints in the main slab shall be sawn at minimum 2 inch depth. Sidewalk joints shall be troweled.
5. Apply one coat of sealer as soon as practicable after finishing. If a curing compound is used, CONTRACTOR shall verify compatibility with sealer. At completion of project, clean surface thoroughly with detergent and rinse. Apply a second coat of sealer in accordance with manufacturer's instructions. If detergent and rinse does not remove all dirt and staining, acid etch or shot blast surface to obtain clean and uniform surface. Apply two coats of sealer following manufacturer's directions. CONTRACTOR is responsible for protection of floor slabs from staining or other damage during the construction period.
6. Main slab shall be divided into three phases, per drawing. Coordinate with Engineer and/or Fire Department for timing of each phase to ensure the Fire Department can adjust vehicle configuration for the duration of each phase time period.
7. Work on phase 2 & 3 can only proceed when the previous phase is completely cured and ready for use.
8. Alternate color selection for main slab concrete to be agreed by City Staff.
9. Existing main slab is approximately 2" HMA over 4-6" PCC.



CITY OF GALENA
101 GREEN STREET
GALENA, IL 61036

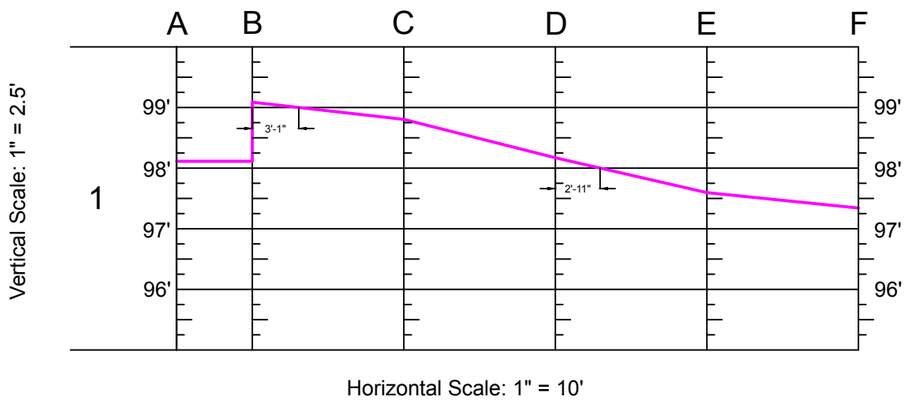
DRAWN BY: MJO
CHECKED BY: CAL
SCALE 1"=10'

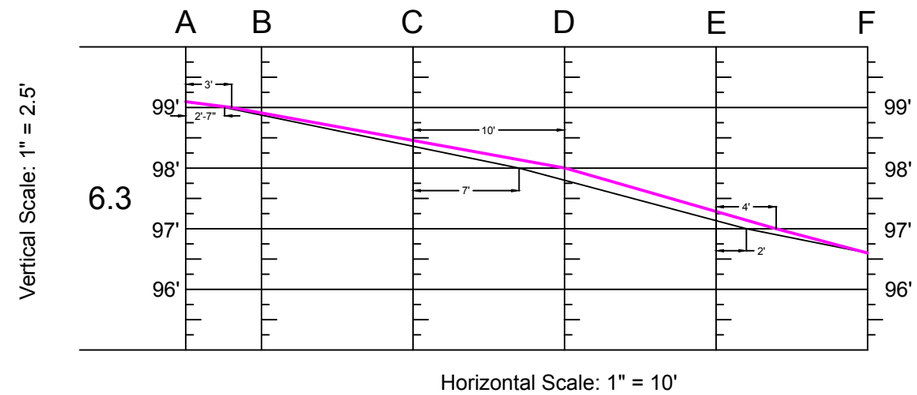
GFD RAMP PROJECT SCOPE

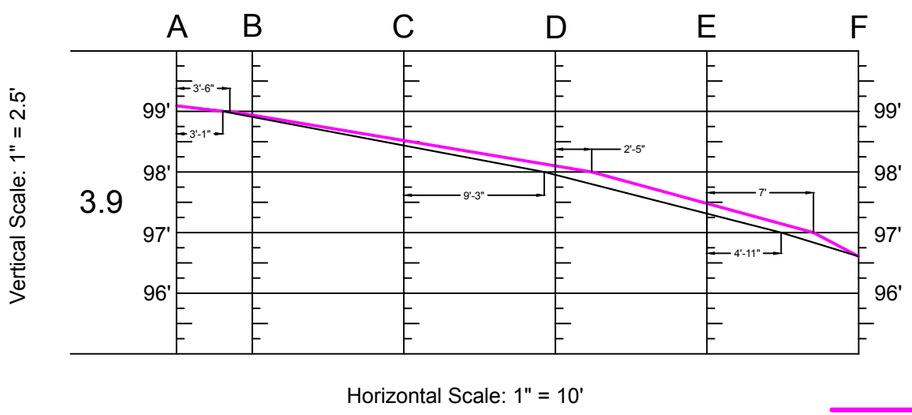
GALENA FIRE DEPARTMENT
RAMP PROJECT
GALENA, ILLINOIS

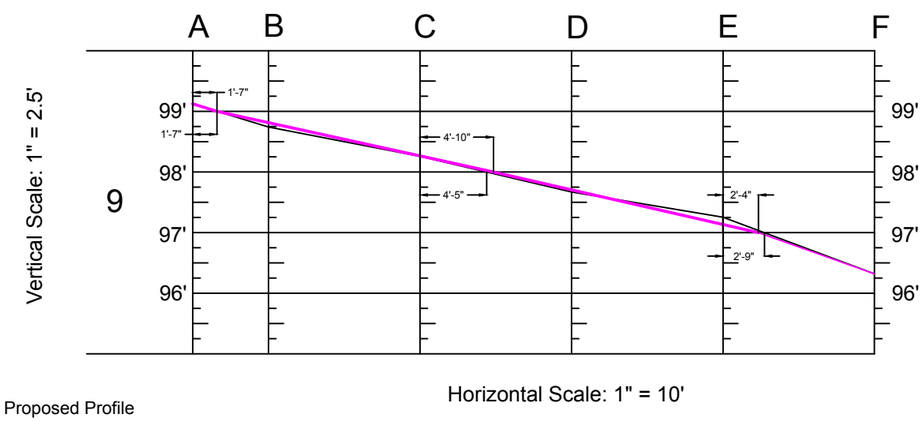
FILE NO.

SHEET
2 OF 4



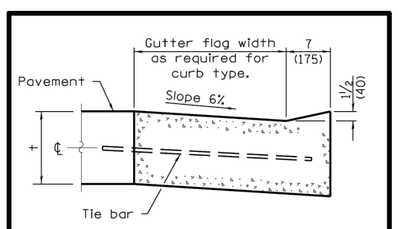






Proposed Profile

Existing Profile

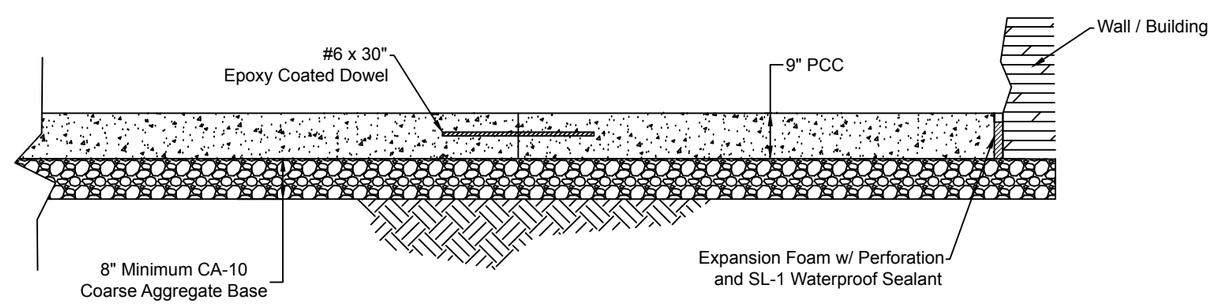


DEPRESSED CURB (TYPICAL)

Longitudinal joint tie bars shall be No. 6 (No. 19) at 24 (600) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

IDOT Standard: 606001-006



CROSS SECTION - MAIN SLAB
Not To Scale

CITY OF GALENA
101 GREEN STREET
GALENA, IL 61036

DRAWN BY: MJO
CHECKED BY: CAL
SCALE 1"=10'

GFD RAMP PROFILE & SECTIONS

GALENA FIRE DEPARTMENT
RAMP PROJECT
GALENA, ILLINOIS

FILE NO.

SHEET
4 OF 4