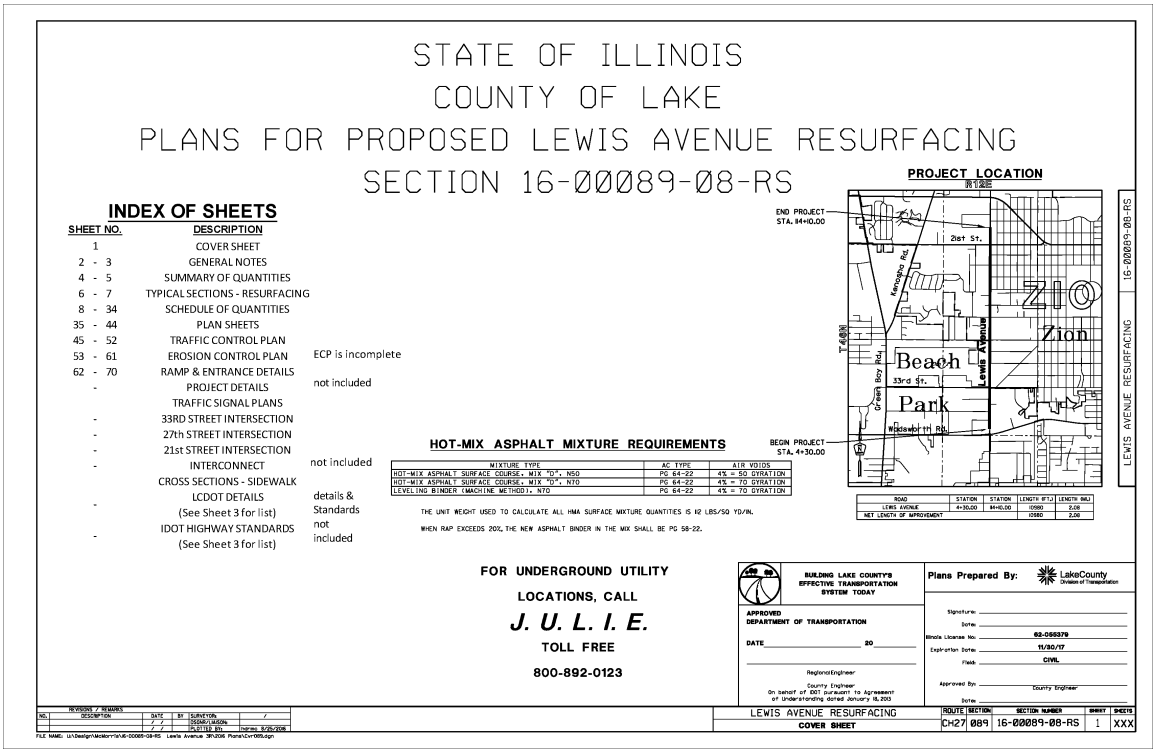
LAKE COUNTY DIVISION OF TRANSPORTATION

PLAN PREPARATION GUIDELINES



STATE OF ILLINOIS
COUNTY OF LAKE
PLANS FOR PROPOSED LEWIS AVENUE RESURFACING
SECTION 16-00089-08-RS

INDEX OF SHEETS

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62 - 70	RAMP & ENTRANCE DETAILS	
-	PROJECT DETAILS	not included
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-	33RD STREET INTERSECTION	
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-	21st STREET INTERSECTION	
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-	LCDOT DETAILS (See Sheet 3 for list)	details & Standards
-	IDOT HIGHWAY STANDARDS (See Sheet 3 for list)	not included

PROJECT LOCATION

END PROJECT STA. 84+10.00
BEGIN PROJECT STA. 4+30.00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	PG 64-22	4% = 50 GYRATION
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	PG 64-22	4% = 70 GYRATION
LEVELING BINDER (MACHINE METHOD), N70	PG 64-22	4% = 70 GYRATION

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 92 LBS/SQ YD/IN.

WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

ROAD	STATION	STATION	LENGTH (FT.)	LENGTH (MI.)
LEWIS AVENUE	4+30.00	84+10.00	10580	2.00
NET LENGTH OF IMPROVEMENT			10580	2.00

FOR UNDERGROUND UTILITY
LOCATIONS, CALL
J. U. L. I. E.
TOLL FREE
800-892-0123

BUILDING LAKE COUNTY'S EFFECTIVE TRANSPORTATION SYSTEM TODAY

APPROVED
DEPARTMENT OF TRANSPORTATION
DATE _____ 20 _____
Regional Engineer
County Engineer
On behalf of IDOT pursuant to Agreement of Understanding dated January 16, 2003

Plans Prepared By: LakeCounty Division of Transportation
Signature:
Date:
Illinois License No: 62-055379
Expiration Date: 11/30/17
Field: CIVIL
Approved By: County Engineer
Date:

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR: /
		/ /		SURVEY LOCATION:
		/ /		SURVEY FILE No:

FILE NAME: U:\Design\Mcklorr-U\16-00089-08-RS Lewis Avenue 3R\206 Plans\Cvr005.dgn

LEWIS AVENUE RESURFACING
COVER SHEET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	1	XXX

16-00089-08-RS
LEWIS AVENUE RESURFACING

PLAN PREPARATION GUIDELINES

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REFERENCE DOCUMENTS

DESIGN GUIDANCE FOR LCDOT TRAFFIC PLANS

LCDOT CAD MANUAL

LCDOT DESIGN SURVEY PROCEDURES

LCDOT DETOUR PROCEDURES AND GUIDELINES

LCDOT PLAT GUIDELINES

LAKE COUNTY DIVISION OF TRANSPORTATION
PLAN PREPARATION GUIDELINES

The project scoping report will establish the design criteria and project type. The project plans shall be prepared and assembled according to Section 63-3.04 Plan Sheet Organization, of the Bureau of Design and Environment Manual; Section 11-1.03(a) Contract Plans, of the Bureau of Local Roads & Streets (BLR) Manual; and the following LCDOT requirements.

All drawings shall be prepared in the Microstation format (dgn files). For information on LCDOT's Computer Aided Design (CAD) and Survey standards, requirements and guidelines please refer to the LCDOT CAD MANUAL and the LCDOT DESIGN SURVEY PROCEDURES. Both documents are available on the LCDOT web site.

In addition to the above, drainage design shall meet the requirements of the latest LCSMC Watershed Development Ordinance. All coordination with the Consultant shall be through the assigned LCDOT Project Manager (PM) and/or Project Engineer (PE).

The following descriptions and requirements are the minimum standards for LCDOT plans – Consultants and Designers should also refer to the included exhibits for examples of each type of plan sheet.

COVER SHEET – (Exhibit 1): The base sheet is available from the LCDOT CAD library. The following items shall be included on the Cover Sheet as appropriate:

- The project road name(s), type of work (reconstruction, resurfacing, traffic signals etc..) and section number.
- Index of Sheets.
- Design Designation. This number is shown on the LCDOT Scoping Report.
- Pavement Design & HMA MIX Requirements table with the current IDOT D1 notes (unit weight, RAP etc..).
- Location map – highlight/bold the project location. Include labels with leaders showing the beginning and end of the project along with any omissions. Labels for work on multiple roads or intersections will show the limits for all roads. The map will include a north arrow; and Township (T43N, T44N, T45N & T46N) and Range (R9E, R10E, R11E & R12E) labels within the limits of the map.
- Project length table.
- Signature block as shown. For projects using MFT funds a second signature block shall be included for the County Engineer's signature authorizing the county to sign on IDOT's behalf pursuant to the current Agreement of Understanding.
- JULIE Dig Note – included in cell.
- The list of IDOT & LCDOT Standard Drawings may be included on the cover sheet if space allows.

GENERAL NOTES – (Exhibit 2): The current LCDOT General Notes are available on the LCDOT web site with the LCDOT special provisions. A Microsoft Word version of the notes can be obtained via the Dropbox. The notes under sections 1-11 should only be modified as indicated by the red text. The notes under sections 12-16 are project specific. They should be completed and/or deleted as appropriate to the specific project. For example, the utility contacts in notes 15 & 16 (Legal Mandate & Damage Prevention) aren't normally required on a resurfacing project but are on an intersection improvement. The General Notes sheet(s) will also include a Benchmark listing if an Alignment and Ties sheet is not included in the plans (check with the LCDOT Surveyor to determine if the Alignment and Ties sheet is required). An index of the IDOT Highway Standards and LCDOT Details will be included with the General Notes if not shown on the Cover Sheet (preferred location for LCDOT let projects). The General Notes, Points of Contact and standards lists will generally fill up two plan sheets.

SUMMARY OF QUANTITIES – (Exhibit 2): The Summary of Quantities for smaller project (less than 40 pay items) may be included on the General Notes sheets. For larger projects the Summary of Quantities will be on a separate sheet(s). Columns for the Summary of Quantities shall include:

- A numerical count of the pay items (1-XX)
- The IDOT/LCDOT pay code (note LCDOT codes cannot be used for IDOT let projects). The pay items shall be in alpha numeric order (2XXXXXXXX – 8XXXXXXX; AXXXXXXX – ZXXXXXXX). The LCDOT numbers (LCXXXXXX) shall be inserted into the alphabet section in the appropriate order. IDOT temporary codes (XX numbers) will follow the single X section.
- Item Description
- Unit
- Quantity
- Designations for Specialty Pay Items; Contingency Quantities (not allowed on federal projects); and items covered by Special Provisions. This may be accomplished with individual columns for each or appropriate special characters (including an appropriate legend)
- Special breakdown of quantities e.g. breakout of quantities attributable to a community partner (if required).

The Pay Code, Description, and Unit shall be ***exactly*** as it appears in the current IDOT Coded Pay Item List for each pay item. Additional columns in the summary indicating the schedule number the pay item is covered in and plan sheet the schedule is located on are desired but not required.

Every effort should be made to use available IDOT pay codes modified by a special provision for the project. In the event an IDOT/LCDOT pay code does not describe the work or material required an LCDOT pay code may be created for LCDOT let projects. Consultants will provide a list of required pay items to the PM or PE who will coordinate with the LCDOT pay code manager for new codes. For IDOT let projects LCDOT pay codes are not allowed.

TYPICAL SECTIONS – (Exhibit 3): Typical Sections shall be shown for all major changes in road sections, and shall show all slopes widths, materials and scale. For IDOT let projects separate existing and proposed typical sections are required. For LCDOT let projects the proposed typical section may be overlaid on the existing typical section (preferred). Each typical section shall include:

- The title of the typical section (road name, existing / proposed etc..).
- Station range the typical section applies to – with minor exceptions the entire length of the project should be covered by a typical section(s).
- Applicable notes
- Identify applicable pay items
- Legend for number and/or letter labels, patterns etc... Note the legend shall be the same for all typical section sheets i.e. a comprehensive legend shall be used.

SCHEDULE OF QUANTITES – (Exhibit 4): Quantity Schedules shall be provided for all pay items except lump sum (Traffic Control & Protection, Maintenance of Temporary Erosion Control Systems etc..); Contingency Items (Flocculation Logs, Flocculation Powder, Pipe Drains etc..); Traffic Signal Items (shown on the Signal/Interconnect plans); and Structural (typically retaining walls – shown on the structural plans bill of materials). Plans with traffic signal or structural items and no traffic signal or structural plans shall require quantity schedules e.g. detector loops on resurfacing projects. Each schedule shall include sufficient detail to show how the quantity is arrived at (e.g. show length and width to get area & include depth to get volume) and/or location information to show where the pay item is used. **DO NOT** just tally quantities by plan sheet or reiterate the summary quantity without calculation/location information.

ALIGNMENT AND TIES SHEET – (Exhibit 5): This sheet shall be required for all projects with a “Construction Layout” pay item. This sheet may be required for projects without “Construction Layout”. The PM / PE should check with the LCDOT Surveyor to determine if the sheet is required.

PLAN AND PROFILE SHEETS – (Exhibit 6): The scale shall be 1” = 20’ Horizontal and 1” = 2’ Vertical. At a minimum the Plan and Profile sheets shall contain the following:

PLAN VIEW

- All plans shall use LCDOT’s stationing. Plans developed from ROW plats shall match the stationing on the plat. See the LCDOT DESIGN SURVEY PROCEDURES for more information.
- Existing topographic information will be drawn lightly using thin line weights and gray scale elements. Proposed work will be shown with a heavier line weight and darker elements. LCDOT prefers to include as much information as possible on the plan and profile sheets e.g. proposed geometrics, drainage, pavement markings etc... IDOT requires separate geometrics, drainage and utilities, removal and pavement marking sheets. Consultants should coordinate your work with the project PM/PE early to avoid redoing sheets to combine information.

- Property lines, Property Identification Numbers (PIN), and property owner's names shall be shown on the plan view. Subdivision names may be appropriate for some larger parcels.
- Station and offset at the PC, PT, and PCC on returns.
- Show the grades at the edge of pavement on returns at max 25' intervals either on the plan or a detail.
- Label all proposed storm sewer and culvert pipes by type, size, length and slope.
- Label all drainage structures by station & offset. Drainage structures in the curb line shall be labeled to the edge of pavement. Drainage structures at other locations shall be labeled to centerline of structure (barrel). Drainage structure labels shall also include top of frame or grate elevation, and invert elevation(s).
- Station all Private Entrances (PE), Commercial Entrances (CE), and Field Entrances (FE) locations as well as the centerline of side streets and roads. Entrance labels shall include the station of the entrance centerline, width of the entrance at the ROW and the material type (e.g. HMA, Concrete or Aggregate).
- Include the required quantities for Trench Backfill (TB), Porous Granular Backfill (PGB), and Aggregate Base Course (AGG) for all trenches under or within 2 feet of the edge of pavement (crossing entrances and roads).
- Guardrail labels for barrier and terminal sections.
- Plan view only sheets may use aerial photographs to show existing elements when a full topographic survey is not included in the scope of the project.
- Topographic elements (trees, bushes, posts, mailboxes etc..); utility elements (underground lines, vaults, manholes, valves, posts, guys etc..); and proposed removal, relocation labels.

PROFILE VIEW

- Show all existing drainage such as culverts and storm sewer with invert and top of frame elevations shown.
- Show the profiles of the existing centerline or profile gradeline, left and right right-of-way lines. **Note**: The right-of-way profiles are needed for design, but can be omitted from the final plans if deemed to be too cluttered.
- Show the proposed centerline or profile gradeline of roadway and/or bike path with vertical curve information and grade lines.
- Show proposed centerline of the left and right ditch.
- Show the existing and proposed centerline elevations at 25' intervals and at other points of interest.
- Show profiles of sanitary sewers and other utilities at critical points.
- Show the proposed drainage along the mainline storm sewer and/or proposed culverts. Existing drainage elements removed in the process of installing proposed elements in the same location may be omitted from profile.

STAGES OF CONSTRUCTION: Projects with proposed stages of construction shall include plan sheets depicting the project area and the associated traffic control for each stage. At a minimum the following items shall be included in the stages of construction plans:

1. The traffic control (signs, pavement markings etc..) required for each stage.
2. Identification of work zones for each stage.
3. Identification of traffic movement direction and restrictions for each stage.
4. Temporary pavement location and limits if required.
5. Identification of Work Zone Traffic Speed Limit(s). Note requests for work zone speed limits shall be submitted to the Traffic Operations Engineer, reviewed and if approved granted via a signed memo from the County Engineer.

DETOUR PLAN – (Exhibit 7): A detour for a road closing will be used only where absolutely necessary. All proposed detours shall be approved by the County Engineer. Temporary pavement allowing staged construction should be used where possible. For additional information see the LCDOT DETOUR PROCEDURES AND GUIDELINES.

TRAFFIC CONTROL PLAN – (Exhibit 8): A Traffic Control Plan is required for all projects and shall follow the format of the example included. At a minimum the following items shall be included in the traffic control plan:

1. The traffic control general notes including a listing all applicable IDOT and LCDOT standards. The TCP General Notes are available on the LCDOT web site.
2. A plan showing the existing pavement, any widening or reconstruction, any pavement cuts required for drainage or utilities and the limits of construction.
3. The required permanent sign locations and the posted speed zones.
4. Any staging information that may be required.

EROSION CONTROL PLAN – (Exhibit 9): An erosion control plan is required for all projects involving earthwork and shall follow the format of the example provided. A base sheet is available from the LCDOT CAD library. At a minimum the following items shall be included in the erosion control plan:

1. A map showing the drainage basins in Lake County with affected basins shaded in.
2. General Notes that include required staging notes, applicable standards and other specific requirements. The ECP General Notes are available on the LCDOT web site.
3. A legend indicating the quantity for each erosion control item.
4. A plan showing the limits of construction, drainage divides, drainage direction and erosion control features.
5. A note in the title stating how much land is disturbed and if NPDES applies.

INTERSECTION DETAIL – (Exhibit 10): When the designer needs to convey to the contractor changes in pavement slope or construction elements for an intersection a detail shall be provided. The plan sheet(s) shall provide sufficient detail for layout and construction. Points shall be adequately spaced to enable the contractor to build what the designer envisioned. All points shall be provided with a station/offset (horizontal location) and an elevation. Points shall correlate to centerlines, edges of pavement, lane lines etc.., and along all cross section(s). Points along elements shall be evenly spaced.

PAVEMENT MARKING & LANDSCAPING PLAN (Exhibit 11): Generally LCDOT prefers to include the pavement marking and landscaping work on the Plan and Profile Sheets. If this is not feasible due to space constraints or lack of clarity, then with the approval of the LCDOT project manager/project engineer pavement marking and landscaping plan sheets may be used. These separate sheets may also be used when a landscape architect is subcontracted to design the landscaping (producing a separate plan) and/or the landscaping for the project is extensive and varied.

TRAFFIC SIGNALS – (Exhibit 12): Traffic signal plans are required for the installation of new signals and for work performed on existing signals. The signal plans may include temporary plans (signal plans, cable plans and/or interconnect plans); permanent plans (signal plans, cable plans and/or interconnect plans); and network diagrams (cabinet details and fiber splicing diagrams); D1 Standard Traffic Signal Design Details; and/or LED Street Name Signs). For additional information see the Design Guidance for LCDOT Traffic Plans, available on the LCDOT website.

LIGHTING PLAN – (Exhibit 13): LCDOT does not typically include a lighting plan for projects other than roundabout intersections. The LCDOT roundabout intersections are federally funded and follow their rules and requirements for preparation. **At this time this exhibit is reserved for future use.**

PROJECT SPECIFIC CONSTRUCTION DETAIL SHEETS – (Exhibit 14): The project may require specific construction details ranging from butt joint details to unique drainage structures to individual sidewalk ramp details. The attached sheets show the level of detail required for sidewalk ramps.

CROSS SECTIONS – (Exhibit 15): The exhibit reflects the general requirements for cross section sheets. At a minimum the following items shall be included on the cross section plan sheets:

1. Cross sections shall be cut at 50' intervals at even stations e.g. 0+00; 0+50; 1+00; 1+50 etc.… Additional cross sections shall be cut along cross road culverts (may be skewed); at intersections with side streets and entrances; and at any other location requiring cross section detail.
2. The cross section scale shall be the same vertically and horizontally (1" = 5' is desired by LCDOT).
3. Topography: Show all topographic items including trees, bushes, landscape areas and other vegetation boundaries; wetland, water and flood plain boundaries; above and below ground utilities; point and longitudinal items e.g. signs; fences; pillars etc., and any other appurtenances within the limits of construction. Point items shall be shown on the nearest cross section.
4. Show all existing and proposed drainage structures if they fall within 20 feet of the section.
5. Show existing and proposed crossroad culverts at the centerline of the culvert (may be skewed).
6. Label the station, base elevations on both the left and right sides of the sheet.
7. Label the offset distances at every 1" gridline at the top and bottom of the sheet.
8. Show all existing and proposed right-of-way as well as any temporary and permanent easement lines.
9. Include cut, fill and unsuitable cross section end areas for each full cross section (may be omitted from entrance and side road cross sections).

LCDOT STANDARD DETAIL SHEETS: See Appendix 1 for a list of LCDOT Standard Details. The LCDOT Standard Details (pdf files) are available on the LCDOT web site. The website includes a link to the CAD version (dgn files) of the details.

All applicable details shall be included in the plans. For 11 x 17 plan sets two 8½ x 11 standards may be combined on a single plan sheet with a border. Note several LCDOT standard details are full plan sheets.

IDOT HIGHWAY STANDARDS & DETAILS: The IDOT Standard Drawings shall be attached to the end of the plan set. The 11 x 17 standards (pdf) shall be used as downloaded from the IDOT website. An additional boundary is not required. Plan sheet numbers will be added as part of the final plan set using Adobe Acrobat tools.

SPECIFICATIONS: For locally let projects LCDOT will assemble the project specifications document. The Consultant is responsible for identifying the applicable special provisions for the project from LCDOT; IDOT D1; IDOT BDE; IDOT Guide Bridge etc... The special provisions may be identified by list or using the applicable check sheets. The Consultant shall prepare individual special provisions for pay items that require a special provision (identified by an asterisk in the IDOT coded pay items list) for which an LCDOT or IDOT special provision does not already exist. These special provisions shall be submitted in word (doc or docx) format.

The Consultant shall complete the Storm Water Pollution Prevention Plan (if required) using the LCDOT version of BDE 2342 form. The SWPPP will be signed by the County Engineer. For projects requiring Railroad Protective Liability Insurance the Consultant shall provide the railroad contact and train information required to complete the appropriate form (typically LR107-2).

For IDOT let projects (generally federally funded) the Consultant shall assemble the special provisions.

SUBMITTALS: The number of plan submittals is dependent on the complexity of the individual project as well as the number and type of additional agencies with review authority over the project. The required submittals will generally be negotiated on the contract proposal with the PM or PE.

1. **Existing Condition Plan Sheets**: These plan sheets consist of all the base plan sheets and cross sections including all topographic elements. Generally, the review of these sheets will be limited to the PM/PE and will be accomplished electronically.

2. **Preliminary Plans**: Preliminary plans should be submitted showing proposed geometrics, drainage structure locations, storm sewers, curb ramp details and preliminary proposed cross sections. This submission shall include a preliminary Engineers Estimate.

   Review: The plans will be reviewed in terms of geometrics, profiles, cross sections, right-of-way requirements, and drainage location and type of drainage (e.g. storm sewer vs open culverts; and the location of structures). The structure sizes, pipe diameters and inverts for the drainage facilities are not required for this submission.

3. **ROW Plats and Legals**: After incorporating the comments from the preliminary plan review, this submittal will include the plats and legals for Right-of-Way acquisition, and temporary and /or permanent easements.

4. **Pre-Final Plans:** The pre-final submission shall consist of a full set of plans. The plans shall include all sections of the plan so that a complete review may be performed. The IDOT highway standard sheets may be omitted as long as the list of standards (including edition number) has been included on the cover sheet or the general notes sheets. The Consultant shall not submit an incomplete set of plans without the PM/PE's prior approval. The plans shall also include all the corrections for all comments made on the preliminary plan review. The marked up preliminary plan set(s) will be returned with this submission. The submission shall include an Engineer's Estimate of Cost, Estimate of Time and required contract specifications documents.

   Review: The review will focus on areas not covered in the preliminary plan review. The plans will be review for correctness, content, completeness, and, consistency. Corrections made to comments made on the preliminary plans will also be reviewed.

5. **Final Plans:** Final plans submitted for review for correction of comments made on previous reviews.

6. **Final Submittal:** The Consultant shall prepare the final plan set according to the Engineering Service Agreement. All plan sheets shall be printed to a pdf file. The Consultant **shall not** scan any of the plan sheets. In addition to the plan set the final contract specifications shall be submitted. Projects for an IDOT letting shall be submitted according to IDOT requirements.

7. **Design Files:** The Consultant shall compile all CAD files used to develop the plan set and forward them to LCDOT on a CD. The consultant shall insure that all reference files are included.

ELECTRONIC BID PACKAGE FORMAT AND SUBMITTAL: To facilitate the posting of LCDOT let projects to the LCDOT web site, consultants shall provide electronic copies of the bid documents as follows:

1. A .pdf file of the entire plan set.

    a. The file shall be named: **Full_Plan_Set.pdf**.
    b. A scanned copy of the cover sheet with County Engineer's signature will be added by LCDOT.
    c. The file shall be created by printing each individual plan sheet (dgn) to a .pdf file. *Only sheets that require signatures and/or seals may be scanned.*
    d. All plan sheets shall be printed to scale as full size - 22" x 34" (ANSI D) or half size 11" x 17". Consultants shall verify the scale of the final plans with the PM/PE for the project.
    e. Add the IDOT Highway standards as pdf sheets to the end of the plan set file.

2. A compiled .pdf file of the final contract book (specifications).

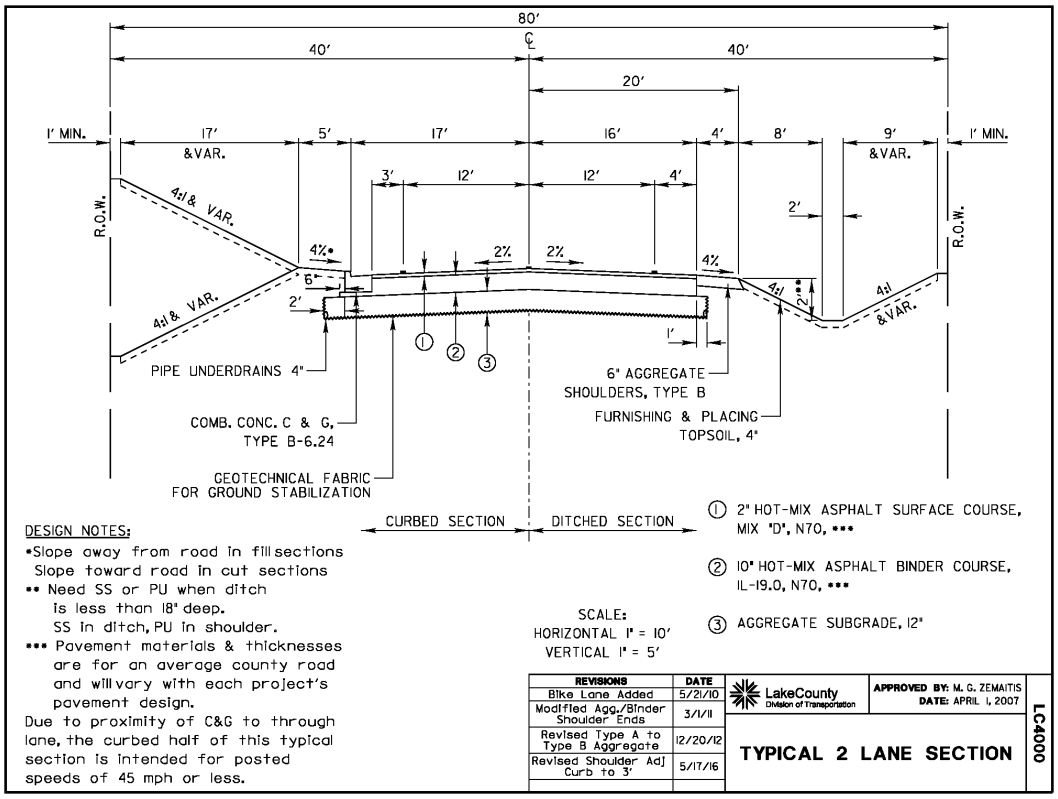
    a. The file shall be compiled from individual documents (word processing, spreadsheets, design standards/details, etc.) printed to .pdf files and individual files already in .pdf format. *Only documents that cannot be transmitted electronically or that require signatures and/or seals may be scanned.*
    b. The file shall be named: **Contract_Specifications.pdf**.
    c. A scanned copy of the cover page with County Engineer's signature will be added by LCDOT.

3. If a soils report for the project has been prepared, the consultant shall include a .pdf file named: **Soils_Report.pdf**.

LakeCounty
Division of Transportation

APPENDIX 1

LCDOT STANDARD DETAILS LIST



	LCDOT Standard Detail Number	Full Sheet Std	Standard Detail Title	Effective Date	Latest Revision Date
			LC00XX MISCELLANOUS TABLES		
	LC0000		Materials Letting Drainage Structure Detail	4/1/2007	
	LC0011		Typical Turn Lanes & Bypass Lane	4/1/2007	4/21/2010
	LC0012		5 Lane to 2 Lane Drop or Add	4/1/2007	7/1/2012
	LC0013		Radius w/Tangent Offset (In Lieu of 3-Center Curve)	4/1/2007	8/31/2017
	LC0020		Trench Widths for Trench Backfill & Pavement Replacement, Bituminous	4/1/2007	7/14/2011
	LC0021		Drainage Facilities & Earthen Berm Constructed Adjacent to Highway R.O.W.	4/1/2007	2/20/2015
			LC2XXX EARTHWORK, LANDSCAPING and EROSION CONTROL		
			Earthwork		
	LC2000		Undercut Detail	4/1/2007	
			Erosion Control		
	LC2050		Temporary Ditch Check Installation for Roadway Ditch or Drainage Ditch	4/1/2007	10/10/2012
	LC2051		Perimeter Erosion Barrier Installation	6/20/2008	7/15/2011
	LC2100		Dry Rubble Stone or Broken Concrete Tree Wells	4/1/2007	
	LC2101		Segmental Concrete Block Wall	4/1/2007	
	LC2200		Vegetation Maintenance Required Clearance for 10' Bikepath	4/10/2013	
			LC30XX SUBGRADES, SUBBASES, and BASE COURSES		
	LC3000		Curb & Gutter Subgrade Options	4/1/2007	
			LC4XXX EARTHWORK, LANDSCAPING and EROSION CONTROL		
			Bituminous Surfaces and Hot-Mix Asphalt Pavements		
	LC4000		Typical 2 Lane Section	4/1/2007	5/17/2016
	LC4001		Typical 2 Lane Section with Adjacent Multi-Use Path	4/1/2007	9/11/2015
	LC4010		Typical 3 Lane Section	4/1/2007	8/3/2015
	LC4011		Typical 3 Lane Section with Adjacent Multi-Use Path	4/1/2007	9/11/2015
	LC4020		Typical 5 Lane Section (11' Lanes)	4/1/2007	8/3/2015
	LC4021		Typical 5 Lane Section (12' Lanes)	4/1/2007	8/3/2015
	LC4030		Typical Intersection Approach with Left and Right Turn Lanes	4/1/2007	8/3/2015
	LC4031		Typical Intersection Approach with LT & RT Turn Lanes & Adjacent Multi-Use Path	4/1/2007	9/11/2015

	LCDOT Standard Detail Number	Full Sheet Std	Standard Detail Title	Effective Date	Latest Revision Date
	LC4040		Typical Superelevated Section - 3R and Resurfacing Projects	4/1/2007	12/20/2012
	LC4041		Typical Superelevated Section – New Roads and Reconstruction Projects	4/1/2007	12/20/2012
	LC4050		Typical Section Aggregate Bikepath	4/1/2007	12/20/2012
	LC4051		Typical Section 8' Hot-Mix Asphalt Bikepath	4/1/2007	9/11/2015
	LC4052		Typical Section 8' Hot-Mix Asphalt Bikepath in Vicinity of Curb & Gutter	4/1/2007	9/11/2015
	LC4053		Typical Section 10' Hot-Mix Asphalt Bikepath	4/1/2007	9/11/2015
	LC4054		Typical Section 10' Hot-Mix Asphalt Bikepath in icinity of Curb & Gutter	4/1/2007	9/11/2015
	LC4100		Typical Minor Access (Private Entrance)	4/1/2007	1/7/2015
	LC4101		Typical Major Access (Commercial Entrance)	4/1/2007	1/7/2015
	LC4102		Typical Major Access (Side Road)	4/1/2007	
	LC4103		Hot-Mix Asphalt Apron for Aggregate Field Entrance	4/1/2007	12/20/2012
	LC4110		Typical Minor Access Treatment on Resurfacing Projects	4/1/2007	
	LC4111		Typical Major Access Treatment on Resurfacing Projects	4/1/2007	
	LC4120		Mailbox Turnout Along Uncurbed Roads	4/1/2007	12/20/2012
	LC4121		Mailbox Turnout Along Curbed Roads	4/1/2007	2/24/2017
			Portland Cement Concrete Pavements and Sidewalks		
	LC4200		Curb & Gutter at Flat Areas of Pavement	4/1/2007	
	LC4201		Detectable Warnings and Pedestrian Pushbutton Locations	4/1/2007	7/14/2015
	LC4202		Concrete Washout Facilities	3/17/2008	
	LC4203		Median Sidewalk Detail	1/7/2015	
	LC4204		Curb Flares for Sidewalks	1/7/2015	12/10/2015
			Pavement Rehabilitation		
			Shoulders		
	LC4800		Transition from Aggregate Shoulder to B-6.24 for 17' Offset to Face	4/1/2007	4/3/2019
	LC4801		Transition from Aggregate Shoulder to B-6.24 for 18' Offset to Face	4/1/2007	8/3/2015
	LC4802		Transition from Aggregate Shoulder to B-6.24 for 20' Offset to Face	4/1/2007	4/2/2019
	LC4820		Hot-Mix Asphalt Apron for Structures in Aggregate Shoulders	4/1/2007	4/3/2019
	LC4821		Hot-Mix Asphalt Apron for Handholes in Aggregate Shoulders	2/2/2009	4/3/2019
			Bridges		

	LCDOT Standard Detail Number	Full Sheet Std	Standard Detail Title	Effective Date	Latest Revision Date
			Culverts		
	LC5400		Tree Preservation with Storm Sewer in Uncurbed Areas	4/1/2007	
	LC5401		Typical Placement of Precast End Sections on Crossroad Culverts	1/19/2009	
	LC5402	X	Joint Ties for Concrete Pipe	4/1/2011	7/8/2011
	LC5403	X	Grating for Concrete Flared End Sections (24" - 54")	12/18/2014	
			Drainage Related Items		
	LC6000		Restricted Depth Manhole	4/1/2007	
	LC6001		Inlet Special Standard 542546 Double (Flat Grates)	4/1/2007	
	LC6002		Inlet Special Standard 542546 Double (Sloped Grates)	4/1/2007	
	LC6003		Drainage Structure Elevations and Offsets	3/9/2012	
	LC6020		Sub-Surface Drains	4/1/2007	11/20/2013
	LC6050		Restrictors for Median Inlet Box	4/1/2007	
	LC6060		Perforated Riser Pipe Detail	1/22/2014	2/24/2017
			Safety Related Items		
	LC6304		HMA Shoulder for Guardrail and Traffic Barrier Terminals	4/1/2013	10/17/2018
	LC6310		Traffic Barrier Terminal, Type 1, Special (Tangent)	4/1/2007	
	LC6350		Guardrail Location and Clearance Near Trees Speed > 45 mph	4/1/2007	
			Other Items		
	LC6600		Ornamental Fence Classic Two Rail	4/1/2007	7/15/2011
	LC6601		Ornamental Fence Three Rail	4/1/2007	7/15/2011
	LC6602		Ornamental Fence Three Rail w/Rings	4/1/2007	7/15/2011
	LC6621		Bike Path Approach Guardrail Adjustment	4/1/2007	
	LC6650		Witness Post	4/1/2007	
			LC7XXX WORK ZONE TRAFFIC CONTROL AND PROTECTION, SIGNING, and PAVEMENT MARKING		
			Work Zone Traffic Control and Protection		
	LC7000		Two Lane - Two Way - Off-Road Operations Day Only Operations - **Modified IDOT Standard 701011**	4/1/2007	3/29/2016
	LC7003		Multilane Intersection with Left Turn Lanes - Corner Islands and 3 M (10ft) Non-Traversable Median Painted Center Turn Lane - Day or Night Operations - **Modified IDOT Standard 701701**	4/1/2007	3/29/2016
	LC7004		Traffic Control and Protection for Sideroads - Intersections and Driveways - Modified District 1 Side Road Detail	4/1/2007	4/22/2014
	LC7005		Typical Lane Closure 3 Lane Road Section	4/1/2007	7/15/2010
	LC7006	X	Single Lane Roundabout Traffic Control	5/1/2017	

	LCDOT Standard Detail Number	Full Sheet Std	Standard Detail Title	Effective Date	Latest Revision Date
			Signing		
	LC7200		Direction Indicator Barricades	4/1/2007	7/15/2011
	LC7201		Temporary Construction Information Signs	4/1/2007	7/15/2011
	LC7202		Modified M.U.T.C.D. Typical Application Diagram TA-3	1/28/2008	7/15/2011
	LC7203		Work Zone Speed Limit Signing Diagram	4/14/2009	5/9/2019
			Pavement Marking		
	LC7800	X	Typical Pavement Markings for County Highways	4/1/2007	8/31/2017
	LC7801	X	On Street Bicycle Lane Pavement Markings and Signing Details	4/1/2007	5/2/2017
	LC7802	X	Short Term Pavement Markings	4/1/2007	2/18/2008
	LC7803	X	Typical Pavement Markings for Railroad Crossings on County Highways	6/2/2008	8/31/2017
	LC7804	X	Special Detail for Roundabouts Signing and Pavement Markings	7/1/2008	6/26/2012
	LC7805		Recessed Reflective Pavement Markers	12/2/2013	
			LC8XXX ELECTRICAL		
			General Electrical Requirements		
			Wireway and Conduit Systems		
			Lighting - Luminaires		
			Lighting - Controllers		
			Lighting - Poles		
			Lighting - Towers		
			Lighting - Foundations		
			Lighting - Breakaway Devices		
			Traffic Signals – Controllers and Equipment		
			Traffic Signals – Wire and Cable		
			Traffic Signals – Posts and Foundations		
			Traffic Signals – Signal Heads		
	LC8502		Rectangular Rapid Flashing Beacon	4/24/2013	2/25/2020
			Traffic Signals – Detection		
	LC8600		Typical Detector Loop Layouts	4/1/2007	
	LC8900	X	Camera Mounting Details	4/1/2007	6/13/2014
	LC8902	X	Wireless Transmission System Details	6/1/2012	

	LCDOT Standard Detail Number	Full Sheet Std	Standard Detail Title	Effective Date	Latest Revision Date
			MISCELLANOUS		
			LCDOT		
☐	LCDTR1		Detour Plans	3/10/2020	
			IDOT - District 1		
☐	TS05	X	IDOT - Dist 1 Traffic Signals	9/29/2016	

LakeCounty
Division of Transportation

APPENDIX 2

LCDOT SPECIAL PROVISIONS LIST

Double click here to edit header – Any Road Reconstruction
Section XX-XXXXX-XX-XX
Lake County

STATE OF ILLINOIS
SPECIAL PROVISIONS

The following Special Provisions supplement the specifications listed in the table below, which apply to and govern the proposed improvement designated as Lake County Section **XX-XXXXX-XX-XX**, and in case of conflict with any part or parts of said specifications, the said Special Provisions shall take precedence and govern.

SPECIFICATION	ADOPTED/DATED
Standard Specifications for Road and Bridge Construction	April 1, 2016
Manual on Uniform Traffic Control Devices for Streets and Highways Illinois Supplement	2009 Edition June 2014 Revision
Supplemental Specifications and Recurring Special Provisions (indicated on the Check Sheet included herein)	April 1, 2016
Standard Specifications for Water and Sewer Construction in Illinois	7th Edition, 2014

This Project Does Not Include a Separate Set of Plans.

Revision 3/1/16 – Delete this note from the Contract Specifications.

LOCATION OF IMPROVEMENT

DESCRIPTION OF IMPROVEMENT

LCDOT Special Provisions List
Design Department

	Pay Code	Title	Effective Date	Revision Date
		Division 200. Earthwork, Landscaping, and Erosion Control		
	20100XXX	Tree Removal (XX)	1/1/2007	5/19/2014
	20101100	Tree Trunk Protection	1/1/2007	5/19/2014
	20101200	Tree Root Pruning	1/1/2007	5/13/2015
	20200100	Earth Excavation	1/1/2007	1/28/2015
	20400800	Furnished Excavation	1/1/2008	6/20/2016
	20900110	Porous Granular Backfill	1/1/2007	5/21/2014
	21101600	Topsoil Furnish and Place, Variable Depth	4/19/2010	6/20/2016
	21101615	Topsoil Furnish and Place, 4"	1/1/2007	6/20/2016
	21301052	Exploration Trench 52" Depth	1/1/2007	5/19/2014
	28000305	Temporary Ditch Checks	4/22/2010	10/17/2016
	28000400	Perimeter Erosion Barrier	1/1/2007	10/17/2016
	28000510	Inlet Filters	10/17/2016	5/16/2018
	28200200	Filter Fabric	1/1/2007	5/20/2014
		Division 300. Subgrades, Subbases, and Base Courses		
	30300112	Aggregate Subgrade Improvement 12"	1/1/2007	5/19/2014
	3510XXXX	Aggregate Base Course, Type B X"	12/14/2012	4/10/2017
	35101400	Aggregate Base Course, Type B	12/14/2012	4/10/2017

LCDOT Special Provisions List
Design Department

	Pay Code	Title	Effective Date	Revision Date
		Division 400. Surface Courses, Pavements, Rehabilitation, and Shoulders		
	40200800	Aggregate Surface Course, Type B	12/14/2012	5/19/2014
	40201000	Aggregate for Temporary Access	1/1/2007	5/19/2014
	406005XX	Leveling Binder (Hand Method), NXX	2/1/2014	5/19/2014
	42001300	Protective Coat	1/1/2007	5/19/2014
	42400800	Detectable Warnings	2/13/2007	5/14/2015
	440001XX	Hot-Mix Asphalt Surface Removal	1/1/2007	10/15/2019
	X4401198	Hot-Mix Asphalt Surface Removal Variable Depth		
	4420XXXX	Class B Patches	3/29/2019	
	44201XXX	Class D Patches	1/1/2007	5/5/2015
	45100100	Crack Routing (Pavement)	5/1/2007	2/26/2016
	45100200	Crack Filling	5/1/2007	5/19/2014
	48101200	Aggregate Shoulders, Type B	12/14/2012	5/19/2014
	48203021	Hot-Mix Asphalt Shoulders 6"	1/1/2007	5/20/2014
		Division 500. Structures		
	50300285	Form Liner Textured Surface	1/1/2007	10/9/2018
	550AXXXX	Storm Sewers, Rubber Gasket, Class A, Type X XX"	5/14/2015	
	56109210	Water Valves to be Adjusted	6/6/2011	5/19/2014
	56400300	Fire Hydrants to be Adjusted	1/1/2007	5/20/2014
	59300100	Controlled Low-Strength Material	4/10/2008	5/19/2014

LCDOT Special Provisions List
Design Department

	Pay Code	Title	Effective Date	Revision Date
		Division 600. Incidental Construction		
	60100XXX	Pipe Drains	1/1/2007	3/3/2016
	60108104	Pipe Underdrains, Type 1, 4"	1/1/2007	3/3/2016
	6020XXXX	Catch Basins, Type A	1/1/2007	5/19/2014
	6021XXXX	Catch Basins, Type D	1/1/2008	5/19/2014
	6060XXXX	Combination Concrete Curb and Gutter, Type B-6.XX	1/1/2007	6/12/2014
	6060XXXX	Combination Concrete Curb and Gutter, Type B-6.XX (Abutting Existing Pavement)	1/1/2011	2/28/2018
	61100500	Exploration Trench 52" Depth	1/1/2008	5/19/2014
	63100167	Traffic Barrier Terminal, Type 1 Special (Tangent)	1/1/2007	5/19/2014
		Division 700. Work Zone Traffic Control and Protection, Signing, and Pavement Marking		
	780061XX	Preformed Thermoplastic Pavement Markings	11/15/2018	4/29/2020
	LC78003X	Preformed Plastic Pavement Marking, Type D		
	78100100	Raised Reflective Pavement Marker	1/1/2007	5/21/2014
	78300200	Raised Reflective Pavement Marker Removal	1/1/2007	5/21/2014
		Division 800. Electrical		
	88600600	Detector Loop Replacement	1/1/2007	5/19/2014
		Special Pay Items for Planting and Landscaping		
	K0026610	Transplanted Salvaged Trees	8/3/2011	5/19/2014
	K0026620	Transplanted Salvaged Shrubs	8/3/2011	5/19/2014

LCDOT Special Provisions List
Design Department

	Pay Code	Title	Effective Date	Revision Date
		Lake County Pay Items		
	LC200051	Rejected Load Transportation	2/18/2013	5/13/2015
	LC200052	Excavating Existing Shoulder	4/5/2016	
	LC200501	Maintenance of Temporary Erosion Control Systems	7/21/2008	5/20/2014
	LC200505	Erosion Control Mat	1/1/2008	5/19/2014
	LC200511	Vegetated Concrete Erosion Control Mat	10/26/2017	6/7/2018
	LC300000	Drainage Layer 2'	1/1/2007	5/19/2014
	LC300201	Hot-Mix Asphalt Base Course, Variable Depth	8/1/2011	5/20/2014
	LC400100	Butt Joint for Entrance Resurfacing	1/1/2007	5/19/2014
	LC400150	Hot-Mix Asphalt Slope Wall	1/1/2007	5/20/2014
	LC400151	Hot-Mix Asphalt Surface Adjustment at Manholes	1/1/2007	5/20/2014
	LC400202	Seal Coat	10/3/2014	5/15/2017
	LC400203	Fiber Glass Fabric Repair System	1/1/2007	5/19/2014
	LC50022X	Grated Culvert End Sections	1/1/2014	3/3/2016
	LC500300	Anti-Seep Collars	1/1/2007	5/19/2014
	LC500403	Pavement Jacking	8/1/2011	5/20/2014
	LC500404	Soldier Piles and Lagging	8/1/2011	5/20/2014
	LC5005XX	Steel Apron Endwalls for Culvert Pipe, XX" Dia, X:1 Slope	2/4/2015	
	LC5005XX	Steel Apron Endwalls for Culvert Pipe Arch, XX" Dia, X:1 Slope		
	LC600001	Double Flush Inlet Box for Median, Standard 542546 (2' Sump)	1/1/2007	5/19/2014
	LC600107	Remove Bicycle Rub Rail	5/5/2015	
	LC600200	Install Survey Monuments	1/1/2007	9/4/2014
	LC600204	Fence to be Removed and Replaced	8/1/2011	5/19/2014
	LC7800XX	Temporary Thermoplastic Pavement Markings	1/1/2008	5/19/2014
	LC782000	Guardrail Reflectors	8/1/2011	5/20/2014

LCDOT Special Provisions List
Design Department

	Pay Code	Title	Effective Date	Revision Date
		IDOT Design Temporary Pay Items		
	X0320050	Construction Layout (Special)	5/15/2017	
	X0326458	Pavement Replacement, Hot-Mix Asphalt - No Resurfacing	1/1/2007	5/4/2020
	X0326458	Pavement Replacement, Hot-Mix Asphalt - with Resurfacing	1/1/2007	5/4/2020
	X0426200	Dewatering	1/23/2017	1/25/2019
	X2020110	Grading and Shaping Shoulders	1/1/2007	5/20/2014
	X2070304	Porous Granular Embankment, Special	1/1/2007	1/22/2015
	X2200018	Ornamental Fence	1/1/2007	3/11/2020
	X2511630	Erosion Control Blanket (Special)	1/1/2007	9/4/2018
	X2800500	Inlet Protection, Special	1/1/2007	10/17/2016
	X4240800	Detectable Warnings (Special)	2/11/2015	5/14/2015
	X5030290	Staining Concrete Structures	1/1/2007	6/2/2017
	X6020094	Manholes, Type A, 6'-Diamenter, Type 1 Frame, Closed Lid, Restrictor Plate	8/1/2011	5/21/2014
	X6023500	Inlets, Type A, with Salvaged Frame and Grate	8/1/2011	5/21/2014
	X6026800	Inlets to be Reconstructed (Special)	8/1/2011	5/21/2014
	X6030205	Frames and Grates to be Adjusted (Special)	1/1/2007	5/20/2014
	X6060052	Combination Concrete Curb and Gutter, Type B-6.24 (Special)	1/1/2007	5/19/2014
	X6700405	Engineer's Field Office, Type A (Modified)	1/1/2007	10/15/2019
	X7030005	Temporary Pavement Marking Removal	1/23/2020	
	X7810300	Recessed Reflective Pavement Marker	12/2/2013	2/10/2017
	X78300XX	Grooving for Recessed Pavement Marking	5/21/2018	4/29/2020

LCDOT Special Provisions List
Design Department

	Pay Code	Title	Effective Date	Revision Date
		IDOT Local Roads Temporary Pay Items		
	XX000856	Mailbox Removal and Relocation	9/1/2011	5/19/2014
	XX003668	Preconstruction Video Taping	9/25/2009	5/20/2014
	XX006343	Seeding (Complete)	1/1/2007	6/20/2016
	XX006344	Sodding (Complete)	1/1/2007	6/20/2016
	XX006522	Furnish Witness Post	8/1/2011	5/20/2014
	XX006658	Flocculation Logs	1/1/2007	5/20/2014
	XX006659	Flocculation Powder		
	XX006729	Perimeter Erosion Barrier, Rolled Excelsior	5/5/2015	10/17/2016
	XX006947	Hot-Mix Asphalt Driveway Removal and Replacement	6/6/2011	11/11/2015
	XX008129	Backer Material	4/23/2010	5/19/2014
	XX008130	Drainage Structure to be Cleaned & Grouted	2/1/2014	5/19/2014
	XX008865	Permeable Plastic Berm	11/1/2009	5/20/2014
	XX009142	Pavement Marking Removal (Special)	1/1/2017	1/23/2020
	XX009242	Anti-Graffiti Protection System	6/7/2011	5/4/2020
	XX206400	Mailbox Post	1/1/2007	5/19/2014
		IDOT Special Pay Items for Road and Bridge Construction		
	Z0013797	Stabilized Construction Entrance	4/1/2011	4/14/2016
	Z0013798	Construction Layout	1/1/2007	5/1/2020
	Z0018200	Drainage Structure Reconstruction (Special)	4/23/2020	
	Z0018911	Drill and Grout #6 Tie Bars	8/1/2011	5/19/2014
	Z0019400	Dry Rubble Stone or Broken Concrete Tree Wells	1/1/2007	5/19/2014
	Z0019600	Dust Control Watering	8/1/2011	5/19/2014
	Z0022800	Fence Removal	3/21/2008	5/19/2014
	Z0055905	Temporary Construction Fence	6/21/2011	5/19/2014
	Z00566XX	Storm Sewer (Water Main Requirements)	11/1/2011	5/7/2015
	Z0062450	Sawing Pavement (Full Depth)	1/17/2011	5/21/2014
	Z0062456	Temporary Pavement	1/1/2007	5/19/2014

LCDOT Special Provisions List
Design Department

	Pay Code	Title	Effective Date	Revision Date
		LCDOT Heading - Contract Specifications Shell		
	10000000	Heading - Section 100 Special Provisions and Contract Specifications Shell	5/4/2020	

LCDOT Special Provisions List
Design Department

	Article/ Section		Title	Effective Date	Revision Date
			Division 100. General Requirements and Covenants		
	102	*	Advertisement, Bidding, Award and Contract Execution	1/1/2007	7/19/2017
		*	Added Alternative Bidding	4/1/2011	
		*	Added Alternative Bidding - Low Bidder Determination Examples	4/1/2011	
	105.03(e)	*	Environmental Permitting Agencies	12/22/2014	2/26/2016
	105.09	*	Survey Control Points	1/1/2007	6/6/2014
	106.03	*	Samples, Tests, and Cited Specifications	10/1/2012	1/29/2018
		*	Protection of Existing Drainage Facilities During Construction	5/19/2014	
	107.09	*	Public Convenience and Safety	1/1/2007	1/6/2017
	107.12	*	Protection of Railroad Traffic and Property	1/1/2007	5/19/2014
	107.20	*	Protection and Restoration of Property	1/1/2007	5/19/2014
	107.23	*	Protection of Streams, Lakes, Reservoirs, Natural Areas, Wetlands, Prairie Areas, Savannahs, and Endangered and Threatened Species	4/1/2008	5/19/2014
	107.25	*	Protection and Restoration of Traffic Signs	1/1/2007	5/19/2014
	107.27	*	Insurance	1/1/2007	11/28/2016
	107.29	*	Opening of Section of Highway to Traffic	1/1/2007	5/19/2014
	107.39	*	Contractor’s Responsibility for Locating and Protecting Utility Property and Services	5/19/2017	4/30/2020
	108	*	Prosecution and Progress	1/1/2007	11/15/2016
	108.03		Prosecution of the Work	10/15/2019	
	108.03	*	Prosecution of the Work	10/15/2019	
	108.06	*	Labor, Methods, and Equipment	5/29/2015	

LCDOT Special Provisions List
Design Department

	Article/ Section		Title	Effective Date	Revision Date
			Division 200. Earthwork, Landscaping, and Erosion Control		
	200	*	Phosphorus Fertilizer Nutrient Ban	1/1/2009	5/10/2018
	202.03		Removal and Disposal of Surplus, Unstable, and Unsuitable Materials and Organic Waste (Excess Soil/No Excess Soil)	2/18/2013	5/5/2020 5/19/2014
			Division 300. Subgrades, Subbases, and Base Courses		
	301		Subgrade Preparation - Undercut	1/1/2007	5/21/2014
	301		Subgrade Preparation - Unsuitable Material	1/1/2007	5/21/2014
			Division 400. Surface Courses, Pavements, Rehabilitation, and Shoulders		
	406.09		Approaches, Intersections, and Entrances	1/1/2007	5/19/2014
	406.11	*	Surface Tests	4/1/2008	5/19/2014
	440		Removal of Existing Pavement and Appurtenances	10/17/2016	
	482		Hot-Mix Asphalt Shoulders	1/1/2007	5/20/2014
			Division 500. Structures		
	501		Removal of Existing Structures	10/17/2016	4/11/2017
	503.16		Concrete Superstructures	6/1/2007	3/3/2016
	542/550		Joint Ties For Concrete Pipe	1/1/2008	5/19/2014
	550		Storm Sewer	10/17/2016	
	551		Storm Sewer Removal and Installation	10/17/2016	4/11/2017
			Division 600. Incidental Construction		
	602		Restricted Depth Drainage Structures	6/9/2011	5/21/2014
	602		Catch Basin, Manhole, Inlet, Drainage Structure, and Valve Vault Construction, Adjustment, and Reconstruction	10/17/2016	1/25/2019
	604	*	Frames, Grates, and Median Inlets	1/1/2007	5/19/2014
	632		Guardrail and Cable Road Guard Removal	10/17/2016	4/11/2017

LCDOT Special Provisions List
Design Department

	Article/ Section		Title	Effective Date	Revision Date
			Division 700. Work Zone Traffic Control and Protection, Signing, and Pavement Marking		
	703	*	Work Zone Pavement Marking	10/7/2019	
	780	*	Pavement Striping	7/1/2007	2/25/2020

* Included in Heading - Section 100 Special Provisions and Contract Specifications Shell

General Notes

	Construction	5/18/2018
	Erosion Control Plan	2/4/2015
	Traffic Control Plan	2/4/2015

LCDOT Special Provisions
Traffic Department

	Pay Code	Title	Effective Date	Revision Date
		General		
	LC800.01	Traffic Signal General Requirements	10/15/2016	3/1/2019
		Division 800. Electrical		
	85000200	Maintenance of Existing Traffic Signal Installation	10/1/2016	
	87700XXX	Steel Mast Arm Assembly and Pole	10/1/2016	
	8770XXXX	Steel Combination Mast Arm Assembly and Pole		
	89502375	Remove Existing Traffic Signal Equipment	7/15/2017	
		Lake County Pay Items		
	LC800150	Rebuild Existing Heavy Duty Handhole	1/11/2010	7/15/2017
	LC800868	Relocate Existing Wireless Trafficware Detector	5/1/2020	
		IDOT Design Temporary Pay Items		
	X0326309	Relocate Existing Remote-Controlled Video System (Special)	10/1/2016	1/26/2018
	X0327211	Relocate Switch	10/1/2016	3/1/2019
	X0327698	LED Internally Illuminated Street Name Sign	10/1/2016	7/15/2017
	X1400012	Remove and Reinstall Fiber Optic Cable in Conduit	6/1/2018	
	X1400102	Outdoor Rated Network Cable	10/1/2016	7/15/2017
	X1400216	Layer II (Datalink) Switch	10/1/2016	1/26/2018
	X1400217	Terminate Fiber in Cabinet	10/1/2016	1/26/2018
	X1400219	Splice Fiber in Cabinet	10/1/2016	1/26/2018
	X1400326	Rectangular Rapid Flashing Beacon Assembly	6/1/2018	
	X8570215	Full-Actuated Controller in Existing Cabinet	10/1/2016	3/1/2019
	X8570226	Full-Actuated Controller and Type IV Cabinet, Special	10/1/2016	3/1/2019
	X8730571	Electrical Cable in Conduit, Coaxial	10/1/2016	
	X8730800	Electrical Cable in Conduit, Video No 20 4 C	10/1/2016	

LCDOT Special Provisions
Traffic Department

	Pay Code	Title	Effective Date	Revision Date
		IDOT Local Roads Temporary Pay Items		
	XX005723	Video Detection System Complete Intersection	10/1/2016	3/1/2019
	XX005940	Remote Controlled Video System	10/1/2016	3/1/2020
	XX006657	Relocate Existing Video Detection System (Complete Intersection)	10/1/2016	
	XX008396	Camera Mounting Assembly, Special	10/1/2016	3/1/2019

IDOT Special Pay Items for Road and Bridge Construction

Pay Item Category Special Provisions (No Pay Item Number)

	LC821.01	Roadway Luminaires	10/1/2016	3/1/2019
	LC871.01	Fiber Optic Cable	10/1/2016	
	LC873.01	Electric Cable	10/1/2016	10/1/2017
	LC875.01	Traffic Signal Post (Special)	10/1/2016	
	LC877.01	Steel Mast Arm Assembly and Pole (Special)	10/1/2016	
		Steel Combination Mast Arm Assembly and Pole (Special)		
	LC878.01	Concrete Foundation	10/1/2016	

LCDOT Traffic Control & Protection Special Provisions

	X7010216	Traffic Control Plan	6/1/2012	
	X7010217	Traffic Control and Protection (Special)	6/1/2012	3/10/2020

		LCDOT Traffic Special Provision Usage Sheet	3/1/2019

LakeCounty
Division of Transportation

APPENDIX 3

LCDOT SPECIALTY PAY ITEMS LIST

Created: April 1, 2007
Revised: May 18, 2020
Version: 1.0

The Lake County Division of Transportation (LCDOT) has created this list of Specialty Pay Items to supplement the Illinois Department of Transportation (IDOT) Coded Pay Items (IDOT web site Coded Pay Items).

Firms or individuals submitting plans to LCDOT for review and/or approval should attempt first to use the IDOT coded pay items. The LCDOT specialty pay items shall only be used if an appropriate pay item cannot be found in the IDOT list.

In the event that an item of work requires a new pay item – you can't find a corresponding pay item in either the IDOT or LCDOT lists – contact your LCDOT department liaison to request a new pay item. Do not create your own number!

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
		GENERAL REQUIREMENTS AND COVENANTS	
		Category Reserved	
		EARTHWORK, LANDSCAPING, AND EROSION CONTROL	
		Earthwork	
LC200000		Preloading Embankment	Cu Yd
LC200050		Aggregate Trail Removal	Cu Yd
LC200051	++	Rejected Load Transportation	Load
LC200052	++	Excavating Existing Shoulder	Unit
LC200053		Earth Excavation	Lump Sum
LC200054		Pneumatic Excavation	Cu Yd
		Landscaping - General	
LC200100		Landscape Performance Guarantee	Lump Sum
LC200110		Weed Control, Non-Selective and Non-Residual	Acre
LC200120		Repair Irrigation System	Unit
LC200150		Soil-Sand Mixture	Cu Yd
LC200175		Granite Boulder, 4x6	Ton
		Landscaping - Trees	
LC200200		Tree, Special	Each
LC200201		Tree, Special I	Each
LC200202		Tree, Special II	Each
LC200203		Tree, Special III	Each
LC200204		Tree, Special IV	Each
LC200205		Tree, Special V	Each
LC200206		Tree, Special VI	Each
LC200207		Tree, Special VII	Each
LC200208		Tree, Special VIII	Each
LC200209		Tree, Special IX	Each
LC200210		Tree, Special X	Each
LC200211		Tree, Special XI	Each
LC200212		Tree, Special XII	Each
LC200213		Tree, Special XIII	Each
LC200214		Tree, Special XIV	Each
LC200215		Tree, Special XV	Each

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC200240		Seedlings, Special	Unit
LC200241		Seedlings, Special I	Unit
LC200242		Seedlings, Special II	Unit
LC200243		Seedlings, Special III	Unit
LC200244		Seedlings, Special IV	Unit
LC200245		Seedlings, Special V	Unit
Landscaping - Shrubs & Plants			
LC200300		Vine, Special	Each
LC200301		Vine, Special I	Each
LC200302		Vine, Special II	Each
LC200303		Vine, Special III	Each
LC200304		Vine, Special IV	Each
LC200305		Vine, Special V	Each
LC200320		Shrub, Special	Each
LC200321		Shrub, Special I	Each
LC200322		Shrub, Special II	Each
LC200323		Shrub, Special III	Each
LC200324		Shrub, Special IV	Each
LC200325		Shrub, Special V	Each
LC200326		Shrub, Special VI	Each
LC200327		Shrub, Special VII	Each
LC200328		Shrub, Special VIII	Each
LC200329		Shrub, Special IX	Each
LC200330		Shrub, Special X	Each
LC200331		Shrub, Cornus Sericea Flaviramea (Yellow Twig Dogwood), 4' Height, Balled and Burlapped	Each
LC200360		Perennial Plantings, Special I	Each
LC200361		Perennial Plantings, Special II	Each
LC200362		Perennial Plantings, Special III	Each
LC200363		Perennial Plantings, Special IV	Each
LC200364		Perennial Plantings, Special V	Each
LC200365		Perennial Plantings, Special VI	Unit
LC200366		Perennial Plantings, Special VII	Unit
LC200367		Perennial Plantings, Special VIII	Unit
LC200368		Perennial Plantings, Special IX	Unit
LC200369		Perennial Plantings, Special X	Unit
LC200370		Perennial Plantings, Wetland Type, Special	Unit

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC200371		Perennial Plantings, Wetland Type, Special I	Unit
LC200372		Perennial Plantings, Wetland Type, Special II	Unit
LC200373		Perennial Plantings, Wetland Type, Special III	Unit
LC200374		Perennial Plantings, Wetland Type, Special IV	Unit
LC200375		Perennial Plantings, Wetland Type, Special V	Unit
LC200376		Perennial Plantings, Open Water Type, Special I	Unit
LC200377		Perennial Plantings, Open Water Type, Special II	Unit
LC200380		Perennial Plants, Wetland Emergent, 2" Diameter by 2" Deep Plug	Unit
Landscaping - Seeding & Sodding			
LC200400		Sod Restoration (Complete)	Sq Yd
LC200450		Seeding, Special	Sq Ft
LC200451		Seeding, Special I	Sq Ft
LC200452		Seeding, Special II	Sq Ft
LC200453		Seeding, Special III	Sq Ft
LC200454		Seeding, Special IV	Sq Ft
LC200455		Seeding, Special V	Sq Ft
LC200456		Seeding, Special VI	Sq Ft
LC200457		Seeding, Special VII	Sq Ft
LC200458		Seeding, Special VIII	Sq Ft
LC200459		Seeding, Special IX	Sq Ft
LC200460		Seeding, Special X	Sq Ft
LC200461		Interseeding, Special I	Acre
LC200462		Interseeding, Special II	Acre
LC200463		Interseeding, Special III	Acre
LC200464		Interseeding, Special IV	Acre
LC200465		Interseeding, Special V	Acre
LC200470		Final Stabilization	Acre

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC200471		Seeding, Special I	Acre
LC200472		Seeding, Special II	Acre
LC200473		Seeding, Special III	Acre
LC200474		Seeding, Special IV	Acre
LC200475		Seeding, Special V	Acre
LC200476		Seeding, Special VI	Acre
LC200477		Seeding, Special VII	Acre
LC200478		Seeding, Special VIII	Acre
LC200479		Seeding, Special IX	Acre
LC200480		Seeding, Special X	Acre
LC200490		Nature Preserve Roadway Seeding	Acre
		Erosion Control	
LC200501	++	Maintenance of Temporary Erosion Control Systems	Unit
LC200502	++	Permeable Plastic Berm	Foot
LC200503		Gabion Removal	L Sum
LC200504		Turbidity Curtain	Foot
LC200505	++	Erosion Control Mat	Sq Yd
LC200506		Slope Stabilization	Acre
LC200507		Mobile Trailer Dewatering Device Including Treatment	Cal Mo
LC200508		River Rock 3"	Cu Yd
LC200509		Stone Riprap, Class A3, Special I	Sq Yd
LC200510		Stone Riprap, Class A3, Special II	Sq Yd
LC200511	++	Vegetated Concrete Erosion Control Mat	Sq Ft
LC200512		Bioswale	Foot
LC200513		Bioswale Erosion Control Blanket	Sq Yd
		SUBGRADES, SUBBASES, AND BASE COURSES	
		Subgrade	
LC300000	++	Drainage Layer 2'	Sq Yd
LC300001		Rammed Aggregate Pier System (Complete)	Sq Yd
LC300002		Aggregate Column Ground Improvement Location 4	L Sum
LC300003		Aggregate Column Ground Improvement Location 5	L Sum
LC300004		Aggregate Column Ground Improvement Location 6	L Sum
LC300005		Stone Toe Installation	Foot
LC300006		Aggregate subgrade improvement 9"	Sq Yd
LC300007		Aggregate subgrade improvement 10"	Sq Yd
LC300008		Aggregate BaseCourse, Type B 4"	Sq Yd
		Subbase	

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
Category Reserved			
Base Course			
LC300200		Pulverize & Relay Asphalt Pavement and Base Course	Sq Yd
LC300201	++	Hot-Mix Asphalt Base Course, Variable Depth	Ton
LC300202	++	Hot-Mix Asphalt Base Course, Variable Depth	Sq Yd
SURFACE COURSES, PAVEMENTS, REHABILITATION, AND SHOULDERS			
Aggregate			
LC400001		Aggregate Surface Course FA-21	Ton
LC400002		Clear Aggregate Binder	L Sum
LC400003		Aggregate Surface Course, Type A 3"	Sq Yd
Bituminous Surfaces and Hot-Mix Asphalt Pavements			
LC400100	++	Butt Joint for Entrance Resurfacing	Foot
LC400101		Hot-Mix Asphalt Driveway Removal and Replacement	Sq Yd
LC400150	++	Hot-Mix Asphalt Slope Wall	Sq Yd
LC400151	++	Hot-Mix Asphalt Surface Adjustments at Manholes	Each
LC400152		Temporary Pavement 4"	Sq Yd
LC400153		Temporary Pavement 8"	Sq Yd
LC400154		Polymer Modified Asphalt 2"	Ton
LC400155		Hot-Mix Asphalt Base Course Widening, 9¾"	Sq Yd
LC400156		Hot-Mix Asphalt Binder Course, IL-19.0, N50	Ton
LC400157		Hot-Mix Asphalt Surface Course, Mix "D", N50	Ton
Portland Cement Concrete Pavements and Sidewalks			
LC400180		Portland Cement Concrete Base Patching 4"	Sq Yd
LC400181		Protective Coat	Sq Yd
LC400182		Diamond Grinding Concrete Pavement	Sq Yd

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
		Pavement Rehabilitation	
LC400201		Temporary Patching	Sq Yd
LC400202	++	Seal Coat	Sq Yd
LC400203	++	Fiber Glass Fabric Repair System	Foot
LC400204		Full-Depth Reclamation, 12"	Sq Yd
LC400205		Micro-Surfacing, Two Passes	Ton
LC400206		Pavement Removal	Sq Yd
LC400207		Combination Curb and Gutter Removal	Foot
LC400208		Class D Patched, Type1, 9 Inch	Sq Yd
LC400209	++	Maltene-Based Pavement Rejuvenator	Sq Yd
LC400210		Temporary Reflective Tabs - 4"	Each
LC400211		Pavement Marking Cleaning	Unit
		Shoulders	
		Category Reserved	
		STRUCTURES	
		Bridges	
LC500001		Retaining Wall, Special I	Sq Ft
LC500002		Retaining Wall, Special II	Sq Ft
LC500003		Retaining Wall, Special III	Sq Ft
LC500004		Retaining Wall, Special IV	Sq Ft
LC500005		Retaining Wall, Special V	Sq Ft
LC500006		Wingwall, Special	Sq Ft
LC500007		Form Liner Textured Surface, Parapet	Sq Ft
LC500008		Form Liner Textured Surface, Wall	Sq Ft
LC500009		Temporary Bridge, Furnish and Install	Each
LC500010		Temporary Bridge, Months of Rental	Cal Mo
LC500011		Temporary Bridge, Removal	Each
LC500012		Protection From Pile Driving Equipment	Each
LC500013		10" Concrete Headwall	Each
LC500014		Partial Removal of Sheet Piling	L Sum
LC500015		Partial Removal of Approach Slab	Sq Yd
LC500016		Ground Anchors	Each
LC500020		Pre-cast Concrete Wall Cap	Foot

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
		Culverts	
LC500100		Pipe Culverts, Type 2, Corrugated Steel, Equivalent Round Size 120"	Foot
LC500120		Cured-in-Place Pipe (CIPP), 8"	Foot
LC500121		Cured-in-Place Pipe (CIPP), 10"	Foot
LC500122		Cured-in-Place Pipe (CIPP), 36"	Foot
LC500123		Culvert Liner (Special)	Foot
LC500124		Cured-in-Place Pipe Liner, Special	Foot
LC500125		Culvert Liner (Special)	Sq Ft
LC500130		High Density Polyethylene Pipe 15"	Foot
LC500150		Precast Concrete Box Culvert with Baffle 6' x 8', Special	Foot
LC500151		Three-Sided Precast Concrete Structures 30' x 6.45'	Foot
LC500152		Three-Sided Precast Concrete Structures (Special)	Foot
LC500155		Precast Concrete Box Culvert, Special	Foot
LC500156		Precast Concrete Box Culvert, Special I	Foot
LC500157		Precast Concrete Box Culvert, Special II	Foot
LC500158		Precast Concrete Box Culvert, Special III	Foot
LC500159		Precast Concrete Box Culvert, Special IV	Foot
LC500160		Rapid Set Cement Grout (55 lb Bags) (0 to 50 Units)	Unit
LC500161		Rapid Set Cement Grout (55 lb Bags) (51 to 75 Units)	Unit
LC500162		Rapid Set Cement Grout (55 lb Bags) (More than 75 Units)	Unit
LC500165		Chemical Grout Injection (0 to 150 Gallons)	Gallon
LC500166		Chemical Grout Injection (151 to 300 Gallons)	Gallon
LC500167		Chemical Grout Injection (More than 300 Gallons)	Gallon
LC500180		Pipe Culverts to be Salvaged	Foot
		Sewers	
LC500200		Inlet Box Standard 542546 (Modified)	Each
LC500201		Inlet Type A w/ Frame and Grate for M-2.12 Curb & Gutter	Each
LC500202		Inlet Special, LC Standard 542546, Double (Sloped Grates)	Each
LC500220		Control Structure	Each
LC500221		Temporary Drainage Structure	Each
LC500222		Outlet Box Type B (48")	Each
LC500223		Inlet Box Type F (EQ RS 24")	Each
LC500224		Inlet Box Type F (EQ RS 36")	Each
LC500227		Manholes, Drop Type, 6'-Diameter, Type 1 Frame, Open Lid	Each

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC500228	++	Grated Culvert End Sections, 24" Diameter	Each
LC500229	++	Grated Culvert End Sections, 30" Diameter	Each
LC500230	++	Grated Culvert End Sections, 36" Diameter	Each
LC500231	++	Grating for Concrete Flared End Section 24"	Each
LC500232	++	Grating for Concrete Flared End Section 30"	Each
LC500233	++	Grating for Concrete Flared End Section 36"	Each
LC500234		Grated Culvert End Sections, Equivalent Diameter 24"	Each
LC500235		Grated Culvert End Sections, Equivalent Diameter 30"	Each
LC500236		Grated Culvert End Sections, Equivalent Diameter 36"	Each
LC500237		Grating for Concrete Flared End Section Equivalent Diameter 24"	Each
LC500238		Grating for Concrete Flared End Section Equivalent Diameter 30"	Each
LC500239		Grating for Concrete Flared End Section Equivalent Diameter 36"	Each
LC500240		Grated Culvert End Sections, 48" Diameter	Each
LC500241		Grated Culvert End Sections, 27" Diameter	Each
LC500242		Grated Culvert End Sections, Equivalent Diameter 42"	Each
LC500243		Grated Culvert End Sections, Equivalent Diameter 27"	Each
LC500250		Storm Sewer (Water Main Requirements) Equivalent Round-Size 36 Inch	Foot
LC500251		Temporary Storm Sewer Connections	Each
LC500265		Storm Sewer, Rubber Gasket, Class A, Type 1 Equivalent Round-Size 36 Inch	Foot
		Utilities	
LC500300	++	Anti-Seep Collars	Each
LC500301		Maintain Existing Sanitary Sewer Flow	L Sum
LC500321		Abandon and Fill Existing Water Main	Foot
LC500322		Pressure Valve Insert 16"	Each
LC500323		Isolate Water Main, 8"	Each
LC500324		Isolate Water Main, 12"	Each
LC500325		Sanitary Force Main, 4"	Foot
LC500326		Slip-on Flat Bottom Check Valve 24"	Each
LC500327		Isolation Valves 20"	Each
LC500328		Temporary Sanitary Sewer 10"	Foot
LC500329		Temporary Water Main 16"	Foot
LC500330		Isolate Water Main, 4"	Each
LC500331		Watermain in Casing, 8"	Foot
LC500332		PVC Water Main 8" in Steel Casing	Foot
LC500333		Gate Valve, 4"	Each
LC500334		PVC Water Main 12" in Steel Casing	Foot

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC500335		Drop Manholes, Sanitary, 5'-Diameter, Type 1 Frame, Closed Lid	Each
LC500336		Temporary Sanitary Service Connections	Each
LC500337		Water Service Line Replacement, 1.5"	Each
		Miscellanous	
LC500400		Modify Existing Weir	Each
LC500401		Spread Outlet	L Sum
LC500402		Protective Slab	Sq Ft
LC500403	++	Pavement Jacking	L Sum
LC500404	++	Soldier Piles and Lagging	Sq Ft
LC500405		Prestressed Concrete Cylinder Pipe (PCCP) 20"	Foot
LC500406		PCCP 15 Deg Bend 20"	Each
LC500407		PCCP 30 Deg Bend 20"	Each
LC500408		Steel Sheet Pile, SKZ 20	Sq Ft
LC500409		Deck Waterproofing	Sq Ft
LC500410		Construction Vibration Monitoring (CLCJAWA)	L Sum
LC500411		Concret Block Wall Sealant	Sq Ft
LC500412		Televise and Clean Storm Sewers	Foot
LC500413		Remove and Salvage Concrete Flared End Section	Each
LC500414		Remove and Replace Concrete Wall Cap Stones	Foot
LC500500	++	Steel Apron Endwalls for Culvert Pipe 15" Dia, 4:1 Slope	Each
LC500501	++	Steel Apron Endwalls for Culvert Pipe 18" Dia, 4:1 Slope	Each
LC500502	++	Steel Apron Endwalls for Culvert Pipe 21" Dia, 4:1 Slope	Each
LC500503	++	Steel Apron Endwalls for Culvert Pipe 24" Dia, 4:1 Slope	Each
LC500504	++	Steel Apron Endwalls for Culvert Pipe 30" Dia, 4:1 Slope	Each
LC500505	++	Steel Apron Endwalls for Culvert Pipe 36" Dia, 4:1 Slope	Each
LC500506	++	Steel Apron Endwalls for Culvert Pipe 42" Dia, 4:1 Slope	Each
LC500507	++	Steel Apron Endwalls for Culvert Pipe 48" Dia, 4:1 Slope	Each
LC500508	++	Steel Apron Endwalls for Culvert Pipe 54" Dia, 4:1 Slope	Each
LC500509	++	Steel Apron Endwalls for Culvert Pipe 60" Dia, 4:1 Slope	Each

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC500510	++	Steel Apron Endwalls for Culvert Pipe 15" Dia, 6:1 Slope	Each
LC500511	++	Steel Apron Endwalls for Culvert Pipe 18" Dia, 6:1 Slope	Each
LC500512	++	Steel Apron Endwalls for Culvert Pipe 21" Dia, 6:1 Slope	Each
LC500513	++	Steel Apron Endwalls for Culvert Pipe 24" Dia, 6:1 Slope	Each
LC500514	++	Steel Apron Endwalls for Culvert Pipe 30" Dia, 6:1 Slope	Each
LC500515	++	Steel Apron Endwalls for Culvert Pipe 36" Dia, 6:1 Slope	Each
LC500516	++	Steel Apron Endwalls for Culvert Pipe 42" Dia, 6:1 Slope	Each
LC500517	++	Steel Apron Endwalls for Culvert Pipe 48" Dia, 6:1 Slope	Each
LC500518	++	Steel Apron Endwalls for Culvert Pipe 54" Dia, 6:1 Slope	Each
LC500519	++	Steel Apron Endwalls for Culvert Pipe 60" Dia, 6:1 Slope	Each
LC500520	++	Steel Apron Endwalls for Culvert Pipe 15" Dia, 10:1 Slope	Each
LC500521	++	Steel Apron Endwalls for Culvert Pipe 18" Dia, 10:1 Slope	Each
LC500522	++	Steel Apron Endwalls for Culvert Pipe 21" Dia, 10:1 Slope	Each
LC500523	++	Steel Apron Endwalls for Culvert Pipe 24" Dia, 10:1 Slope	Each
LC500524	++	Steel Apron Endwalls for Culvert Pipe 30" Dia, 10:1 Slope	Each
LC500525	++	Steel Apron Endwalls for Culvert Pipe 36" Dia, 10:1 Slope	Each
LC500526	++	Steel Apron Endwalls for Culvert Pipe Arch 15" Equiv Dia, 4:1 Slope	Each
LC500527	++	Steel Apron Endwalls for Culvert Pipe Arch 18" Equiv Dia, 4:1 Slope	Each
LC500528	++	Steel Apron Endwalls for Culvert Pipe Arch 21" Equiv Dia, 4:1 Slope	Each
LC500529	++	Steel Apron Endwalls for Culvert Pipe Arch 24" Equiv Dia, 4:1 Slope	Each
LC500530	++	Steel Apron Endwalls for Culvert Pipe Arch 30" Equiv Dia, 4:1 Slope	Each
LC500531	++	Steel Apron Endwalls for Culvert Pipe Arch 36" Equiv Dia, 4:1 Slope	Each
LC500532	++	Steel Apron Endwalls for Culvert Pipe Arch 42" Equiv Dia, 4:1 Slope	Each
LC500533	++	Steel Apron Endwalls for Culvert Pipe Arch 48" Equiv Dia, 4:1 Slope	Each
LC500534	++	Steel Apron Endwalls for Culvert Pipe Arch 54" Equiv Dia, 4:1 Slope	Each
LC500535	++	Steel Apron Endwalls for Culvert Pipe Arch 15" Equiv Dia, 6:1 Slope	Each
LC500536	++	Steel Apron Endwalls for Culvert Pipe Arch 18" Equiv Dia, 6:1 Slope	Each
LC500537	++	Steel Apron Endwalls for Culvert Pipe Arch 21" Equiv Dia, 6:1 Slope	Each
LC500538	++	Steel Apron Endwalls for Culvert Pipe Arch 24" Equiv Dia, 6:1 Slope	Each
LC500539	++	Steel Apron Endwalls for Culvert Pipe Arch 30" Equiv Dia, 6:1 Slope	Each
LC500540	++	Steel Apron Endwalls for Culvert Pipe Arch 36" Equiv Dia, 6:1 Slope	Each
LC500541	++	Steel Apron Endwalls for Culvert Pipe Arch 42" Equiv Dia, 6:1 Slope	Each
LC500542	++	Steel Apron Endwalls for Culvert Pipe Arch 48" Equiv Dia, 6:1 Slope	Each
LC500543	++	Steel Apron Endwalls for Culvert Pipe Arch 54" Equiv Dia, 6:1 Slope	Each

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC500544	++	Steel Apron Endwalls for Culvert Pipe Arch 15" Equiv Dia, 10:1 Slope	Each
LC500545	++	Steel Apron Endwalls for Culvert Pipe Arch 18" Equiv Dia, 10:1 Slope	Each
LC500546	++	Steel Apron Endwalls for Culvert Pipe Arch 21" Equiv Dia, 10:1 Slope	Each
LC500547	++	Steel Apron Endwalls for Culvert Pipe Arch 24" Equiv Dia, 10:1 Slope	Each
LC500548	++	Steel Apron Endwalls for Culvert Pipe Arch 30" Equiv Dia, 10:1 Slope	Each
LC500549	++	Steel Apron Endwalls for Culvert Pipe Arch 36" Equiv Dia, 10:1 Slope	Each
LC501000		Clean and Televise Storm Sewer 10"	Foot
LC501001		Clean and Televise Storm Sewer 12"	Foot
LC501002		Clean and Televise Storm Sewer 15"	Foot
LC501003		Clean and Televise Storm Sewer 18"	Foot
LC501004		Clean and Televise Storm Sewer 21"	Foot
LC501005		Clean and Televise Storm Sewer 24"	Foot
LC501006		Clean and Televise Storm Sewer 27"	Foot
LC501007		Clean and Televise Storm Sewer 30"	Foot
LC501008		Clean and Televise Storm Sewer 36"	Foot
LC501009		Clean and Televise Storm Sewer 42"	Foot
LC501010		Clean and Televise Storm Sewer 48"	Foot
LC501011		Clean and Televise Storm Sewer 54"	Foot
LC501012		Clean and Televise Storm Sewer 60"	Foot
LC501050		Root Removal	Foot
LC501051		Heavy Cleaning	Foot
LC501052		Reverse Setup	Each
LC501053		Drainage Structure Inspection	Each
INCIDENTAL CONSTRUCTION			
Drainage Related Items			
LC600000	++	Drainage Structure to be Cleaned and Grouted	Each
LC600001	++	Double Flush Inlet Box for Median, Standard 542546 (2' Sump)	Each
LC600002		Temporary Riser	Each
LC600003		Storm Sewers to be Cleaned	Foot
LC600004		Clean Existing Structures	Each
LC600005		Drop Manhole, 5' Diameter, Type 1 Frame, Closed Lid, Type A1-2	Each
LC600006		Drop Manhole, 5' Diameter, Type 1 Frame, Closed Lid, Type A1-3	Each
LC600007		Cross Vane Installation	Each
LC600008		Step Pool Grade Control	Each
LC600009		Catch Basins, Type A, 6'-Diameter, Type 8 Grate	Each
LC600010		Stream Stabilization	Acre

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC600011		Combination Concrete Curb and Gutter, Type B-6.12 (Abutting Existing Pavement)	Foot
LC600012		Combination Concrete Curb and Gutter, Type B-6.24 (Abutting Existing Pavement)	Foot
LC600013		Drainage Structures to be Adjusted	Each
LC600014		Infiltration Ditch	Foot
LC600015		Filter Bag	Each
LC600016		Catch Basins, Type A, 6'-Diameter, Type 1 Frame, Closed Lid	Each
LC600017		End Section to be Adjusted	Each
LC600018		Combination Concrete Curb and Gutter, Type M-4.12 (Abutting Existing Pavement)	Foot
LC600019		Abandon and Fill Existing Storm Manhole	Each
LC600020		Manholes, Type A, 5'-Diameter, with 2 Type 1 Frame, Closed Lid, Restrictor Plate	Each
LC600021		Manholes, Type A, 7'-Diameter, with 2 Type 1 Frame, Closed Lid, Restrictor Plate	Each
LC600022		Manholes, Type A, 5'-Diameter, with 2 Type 1 Frame, Closed Lid, Restrictor Plate, Special	Each
LC600023		Manholes, Type A, 6'-Diameter, with 2 Type 1 Frame, Closed Lid, Restrictor Plate, Special	Each
LC600024		Manholes, Type A, 7'-Diameter, with 2 Type 1 Frame, Closed Lid, Restrictor Plate, Special	Each
LC600025		Manholes, Type A, 8'-Diameter, with 2 Type 1 Frame, Closed Lid, Restrictor Plate, Special	Each
LC600026		Manholes, Type A, 9'-Diameter, with 2 Type 1 Frame, Closed Lid, Restrictor Plate, Special	Each
LC600027		Manholes, Type A, 4'-Diameter, Type 8 Grate, Special	Each
LC600028		Cleaning Existing Culvert	Unit
Safety Related Items			
LC600100		Coping Railing	Foot
LC600101		Texas Classic Traffic Railing	Foot
LC600102		Median Sign (LCDOT)	Each
LC600103		Traffic Barrier Terminal, Type 1, Special (Radial)	Each
LC600104		Wood Median Sign	Each
LC600105		Wood Guardrail Components (Uninstalled)	L Sum
LC600106		Steel Backed Timber Guardrail Connector	Each
LC600107	++	Remove Bicycle Rub Rail	Foot

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
		Other Items	
LC600200	++	Install Survey Monuments	Each
LC600203		Survey Monument - Cook County Highway Department	Each
LC600204	++	Fence to be Removed and Replaced	Foot
LC600205		Welded Wire Fence	Foot
LC600206		Split Rail Fence - 2 Rail	Foot
LC600207		Split Rail Fence - 3 Rail	Foot
LC600208		Bench Removal	Each
LC600209		Park Equipment Removal and Replacement	Each
LC600210		Onamental Fence Gate, 8'	Each
LC600250		Vibro Concrete Column Ground Improvement Location 1	L Sum
LC600251		Vibro Concrete Column Ground Improvement Location 2	L Sum
LC600252		Vibro Concrete Column Ground Improvement Location 3	L Sum
LC600253		Vibro Concrete Column Ground Improvement Location 4	L Sum
LC600254		Vibro Concrete Column Ground Improvement Location 5	L Sum
LC600255		Vibro Concrete Column Ground Improvement Location 6	L Sum
		WORK ZONE TRAFFIC CONTROL AND PROTECTION, SIGNING, AND PAVEMENT MARKING	
		General	
		Category Reserved	
		Signing	
LC720000		Temporary Information Signs - Businesses	Sq Ft
		Pavement Marking	
LC780000	++	Temporary Thermoplastic Pavement Markings - Letters and Symbols	Sq Ft
LC780001	++	Temporary Thermoplastic Pavement Markings - Line 4"	Foot
LC780002	++	Temporary Thermoplastic Pavement Markings - Line 5"	Foot
LC780003	++	Temporary Thermoplastic Pavement Markings - Line 6"	Foot
LC780004	++	Temporary Thermoplastic Pavement Markings - Line 8"	Foot
LC780005	++	Temporary Thermoplastic Pavement Markings - Line 12"	Foot
LC780006	++	Temporary Thermoplastic Pavement Markings - Line 24"	Foot

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC780030	++	Preformed Plastic Pavement Marking, Type D - Letters and Symbols	Sq Ft
LC780031	++	Preformed Plastic Pavement Marking, Type D - Line 4"	Foot
LC780032	++	Preformed Plastic Pavement Marking, Type D - Line 5"	Foot
LC780033	++	Preformed Plastic Pavement Marking, Type D - Line 6"	Foot
LC780034	++	Preformed Plastic Pavement Marking, Type D - Line 8"	Foot
LC780035	++	Preformed Plastic Pavement Marking, Type D - Line 12"	Foot
LC780036	++	Preformed Plastic Pavement Marking, Type D - Line 24"	Foot
LC782000	++	Guardrail Reflectors	Each
LC782001	++	Grooving for Recessed Pavement Marking 31"	Foot
ELECTRICAL			
General			
LC800000		Grounding Existing Handhole Frame and Cover	Each
Wireway and Conduit Systems			
LC800110		Drill Existing Building	Each
LC800150	++	Rebuild Existing Heavy Duty Handhole	Each
Lighting			
Wire and Cable			
Category Reserved			
Luminaires			
LC800250		Underpass Luminaire, 70 Watt, High Pressure Sodium, Special	Each
LC800251		Roadway Luminaire, LED, Type 1	Each
LC800252		Roadway Luminaire, LED, Type 2	Each
LC800253		Roadway Luminaire, LED, Type 3	Each
LC800254		Roadway Luminaire, LED, Type 4	Each
LC800255		Roadway Luminaire, LED, Type 5	Each
LC800256		Underpass Luminaire, LED, Type 1	Each
LC800257		Underpass Luminaire, LED, Type 2	Each
LC800258		Underpass Luminaire, LED, Type 3	Each
LC800259		Underpass Luminaire, LED, Type 4	Each
LC800260		Underpass Luminaire, LED, Type 5	Each
LC800261		Temporary Luminaire, LED, Horizontal Mount, Type B	Each
LC800265		Temporary Luminaire, LED, Horizontal Mount, Type C	Each
Controllers			
LC800300		Junction Box, Stainless Steel, Embedded in Structure, 6" x 6" x 4"	Each
LC800301		Lighting Controller, Pedestal Mounted, 480 Volt, 100 Amp	Each
Poles and Towers			

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC800350		Light Pole, Steel Galvanized, 45 ft, Special	Each
LC800351		Mast Arm, Special, 18'	Each
Category Reserved			
Removal, Relocation, and Temporary Lighting			
Category Reserved			
Traffic Signals			
Maintenance			
Category Reserved			
Controllers and Equipment			
LC800552		Video Communications Cabinet	Each
LC800555		Fiber Optic Patch Panel, Wall Mount	Each
LC800556		Layer II (Datalink) Switch, Multimode	Each
LC800557		NTCIP Software Upgrade Eagle (Special)	Each
LC800558		NTCIP Software Upgrade Econolite (Special)	Each
LC800559		Terminal Server	Each
LC800560		Full-Actuated Controller in Existing Cabinet (Special)	Each
LC800561		Service Installation - Ground Mounted w/ Meter	Each
LC800562		Fiber Optic Patch Panel	Each
LC800563		Full-Actuated Controller and Type IV Cabinet, Special (LCDOT)	Each
Wire and Cable			
LC800602		Electric Cable in Conduit, No.18 3/C, Video	Foot
LC800603		Electric Cable in Conduit, 24 Ga., UTP, 4 Pair	Foot
LC800605		Electric Cable Aerial Suspended, Coaxial	Foot
LC800606		Electric Cable Aerial Suspended, Communication, No. 18, 3C	Foot
LC800607		Electric Cable Aerial Suspended, 4/C #20 Video	Foot
LC800608		Electric Cable Aerial Suspended, No. 20 3C, Twisted, Shielded	Foot
LC800609		Permanent Span Wire Traffic Signal - Complete	Foot
LC800610		Electric Cable Aerial Suspended, No. 18, 3C for Video	Foot
LC800614		Electric Cable in Conduit, Video, No. 20 4C	Foot
LC800615		Fiber Optic Cable in Conduit, SM12F, Plenum	Foot
LC800616		Electric Cable in Conduit, 600V (EPR-TYPE RHW) 2-1C No. 10	Foot
LC800617		Fiber Optic Cable in Conduit, 24 Singlemode	Foot
LC800618		Outdoor Rated Network Cable Aerial Suspended	Foot

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC800619		Unit Duct, 600V, 5-1/C No.6, 1/C No.8 Ground, (XLP-TYPE USE), 1 1/2" Dia. Polyethylene	Foot
LC800620		Fiber Optic SC to SC Coupler	Each
		Posts and Foundations	
LC800650		Traffic Signal Post, 3 1/2 Foot, (Special)	Each
LC800651		Traffic Signal Post, Galvanized Steel 16 Ft. (Special)	Each
LC800652		Steel Mast Arm Assembly and Pole, 18 Ft. (Special)	Each
LC800653		Steel Combination Mast Arm Assembly and Pole, 16 Ft. (Special)	Each
LC800654		Steel Mast Arm Assembly and Pole, 24 Ft. (Special)	Each
LC800655		Steel Combination Mast Arm Assembly and Pole, 60 Ft. (Special)	Each
LC800656		Steel Combination Mast Arm Assembly and Pole, 20 Ft. (Special)	Each
LC800657		Traffic Signal Post, Galvanized Steel 18 Ft. (Special)	Each
LC800658		Concrete Foundation, Type 1	Foot
LC800659		Steel Mast Arm Assembly and Pole, 28 Ft. (Special)	Each
LC800660		Steel Mast Arm Assembly and Pole, 64 Ft. (Special)	Each
LC800661		Steel Mast Arm Assembly and Pole, 66 Ft. (Special)	Each
		Signal Heads	
LC800700		Signal Head, LED, 1-Face, 1-Section, Mast Arm Mounted, Retrofit	Each
LC800701		Signal Head, LED, 1-Face, 1-Section, Bracket Mounted, Retrofit	Each
LC800702		Pedestrian Signal Head, LED, 1-Face, 2-Section, Bracket Mounted with Countdown Timer, Retrofit	Each
		Detection	
LC800801		CCTV Field Terminal Cabinet	Each
LC800802		Camera Mounting Assembly, Architectural (Special)	Each
LC800803		Camera Mounting Assembly, Aluminum (Special)	Each
LC800804		High Mast Light Tower Camera Installation (Special)	Each
LC800806		Light Detector, Span Wire Mounted	Each
LC800807		Install Video Detection Camera	Each
LC800808		Video Detection System Complete Intersection	Each
LC800809		Fiber Optic Transceiver Module, SFP Type, Extra Long Distance	Each
		Miscellanous	
LC800850	++	Remove Traffic Counter	Each
LC800851		Highway Advisory Radio System	Each
LC800854		Wireless Transmission System Short Range	Each
LC800855		Wireless Transmission System Long Range	Each
LC800856	++	Rectangular Rapid Flashing Beacon Assembly (Complete)	Each
LC800857		Bluetooth Detector	Each
LC800858		Install Adaptive Control System	Each

LCDOT PAY CODE	SPEC	LCDOT SPECIALITY PAY ITEMS DESCRIPTION	UNIT
LC800859		Validation Study	L Sum
LC800860		Adaptive Video Detection Camera	Each
LC800861		Adaptive Control System	Each
LC800862		Wireless Transmission System Point To Point	Each
LC800863		Detector Base Station	Each
LC800864		Long Range Directional Antenna	Each
LC800865		Wireless Detector Unit	Each
LC800866		Detector Sealant Package	Each
LC800867		Installation Toolkit	L Sum
LC800868	++	Relocate Existing Wireless Trafficware Detector	Each
LC800869		Install Wireless Detector Unit	Each
LC800870		Wireless Transmission System Subscriber Unit	Each
LC800871		Wireless Transmission System Base Station	Each
LC800872		Remove Existing Red Light Camera and Equipment	L Sum
LC800873		PoE Extender	Each
LC800874	++	Temporary Traffic Signal Timing	Each
Removal and Relocation			
LC800900		Relocate Existing Transceiver	Each
LC800902		Relocate Existing Remote-Controlled Video System	Each
LC800903		Relocate Existing Switch	Each
LC800904		Relocate Existing Video Transmission System	Each
LC800905		Relocate Existing Video Detection Camera	Each
LC800906		Relocate Existing Wireless Transmission System	Each
LC800907		Relocate Remote Controlled Video System	Each
LC800908		Relocate Video Encoder	Each
LC800909		Relocate Layer II Switch	Each
LC800910		Relocate Terminal Server	Each

++ Pay item has a cooresponding individual LCDOT Special Provision.
All other pay items will require a special provision.

Notes: Pay items in the Work Zone Traffic Control and Protection, Signing, and Pavement Marking (LC7XXXXX) & Electrical (LC8XXXXX) sections may be covered by the LCDOT Traffic Control and Protection Special Provision and/or the IDOT (D1)/LCDOT Traffic Signal Special Provisions.

LakeCounty
Division of Transportation

APPENDIX 4

LCDOT SPECIFICATIONS

BOOK FORMAT

RETURN WITH BID

Illinois Department of Transportation

Local Public Agency
Formal Contract Proposal

PROPOSAL SUBMITTED BY		
Contractor's Name		
Street		P.O. Box
City	State	Zip Code

STATE OF ILLINOIS

COUNTY OF LAKE

(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. _____

SECTION NO. _____

TYPES OF FUNDS MFT

☒ SPECIFICATIONS (required) ☒ PLANS (required)

For Municipal Projects
Submitted/Approved/Passed
Not Applicable

☐ Mayor ☐ President of Board of Trustees ☐ Municipal Official

Date

Department of Transportation
☒ Released for bid based on limited review

Regional Engineer
County Engineer on behalf of IDOT pursuant to
Agreement of Understanding dated January 18, 2013

Date

For County and Road District Projects
Submitted/Approved
Not Applicable

Highway Commissioner

Date

Submitted/Approved

County Engineer/~~Superintendent of Highways~~

Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

RETURN WITH BID BLR 12200 (01/08/14)

SPECIFICATIONS DOCUMENT FORMAT
LOCALLY LET / NON-FEDERAL PROJECTS

	PROJECT:		**Section #**	
			CPMS Pin	**Funding**
	Document		**Form #**	**Notes**
☐	1. Bid Cover, Notice to Bidders, Proposal Schedule of Prices, Contractor Certifications & Signatures LCDOT Spec Book Forms		BLR 12200 (1/8/14)	These 6 forms (4 for non-MFT projects) have been combined into 1 file. Completion of the forms should only require entries in the first 3 pages. Convert the completed document to a .pdf file. Print the cover page (1st page) to paper for the County Engineer's signature(s). Scan the signed document and insert into the final document. Don't forget to include the County Engineer's signature date on the proposal page (3rd page). These pages will be numbered A – M (A – J for non-MFT) in the Contract Specifications pdf file.
☐	2. Affidavit of Availability LCDOT Spec Book Forms		BC 57 (8/17/10)	
☐	3. Substance Abuse Prevention Program Certification BC 261 is not required on materials only contracts. LCDOT Spec Book Forms		BC 261 (1/11/08)	
☐	4. Local Agency Bid Bond LCDOT Spec Book Forms		BLR 12230 (7/05)	
☐	5. Certified Apprenticeship and Training Program **Required for MFT projects only** LCDOT Spec Book Forms	☐ Not Required	BLR 12325 (4/07)	
☐	6. Affidavit of Illinois Business Office **Required for MFT projects only** LCDOT Spec Book Forms	☐ Not Required	BLR 12326 (1/8/14)	
	7. LCDOT Vendor Disclosure Statement LCDOT Spec Book Forms			This page is numbered N (K for non-MFT) in the Contract Specifications pdf file.
☐	8. LCDOT CBID Blank Page LCDOT Spec Book Forms			This page is numbered O (L for non-MFT) in the Contract Specifications pdf file.

SPECIFICATIONS DOCUMENT FORMAT
LOCALLY LET / NON-FEDERAL PROJECTS

☐	9. Table of Contents ***(These pages are numbered – i, ii, iii, iv, etc…)*** LCDOT Spec Book Forms		If the Table of Contents contains an odd number of pages, insert an **INTENTIONALLY BLANK** page after the last page to make it an even number of pages. A base Table of Contents is available with the spec book forms.
	10. Intentionally Blank page ***Inserted as required*** LCDOT Spec Book Forms		This page is inserted into the contract document to separate forms and sections etc.. so that the document when assembled reads logically i.e. forms, maps & sections etc.. start on the odd numbered (right hand) page.
	11. Special Provisions – LCDOT Standard Header LCDOT Special Provisions Doing Business LCDOT Special Provisions ***(HEADING – Section 100 Specs A.doc)*** ---------- The Document shall be modified as required. Fill in the project description and location information. Please note that many specs have "red" notes that will need to be deleted. Insert required and desired individual pay item special provisions under the appropriate DIVISION headings ---------- ***(The special provisions for pay items shall be arranged in numerical order followed by LC, X, XX and Z prefixed items. Pay items covered by the LCDOT Traffic Control and Protection Special Provision; LCDOT and/or IDOT D-1 Traffic Signal Special Provisions; IDOT BDE Special Provisions; IDOT D-1 Special Provisions; IDOT Local Roads (LR); IDOT Guide Bridge Special Provisions and/or other IDOT Special Provisions shall be included in the appropriate sections).***		Complete the Location and Description of Improvement on the 1st page. For resurfacing, 3R & reconstruction type projects Division 100 special provisions should be left intact except for **Article 107.12 Protection of Railroad Traffic and Property** which may be removed if there is no work in a railroad right-of-way. For smaller projects e.g. culvert replacements, storm sewer installation or guardrail work nonapplicable Division 100 special provisions may be deleted. Insert individual pay item special provisions in numerical order under the appropriate Division headers – If there aren't any pay items for a Division then that header may be removed. In **Division 200 Earthwork, Landscaping, and Erosion Control** replace the **Article 202.03 Removal and Disposal of Surplus, Unstable, and Unsuitable Materials and Organic Waste** specification with the appropriate – greater than 20 cubic yard; less than 20 cubic yard; or no excess – version. Additional pay items shall be included in the following order: Each Division shall start on a new page. • A-K – Special Pay Items for Planting and Landscaping • LC – Lake County Pay Items • X – IDOT Design Temporary Pay Items • XX – IDOT Local Roads Temporary Pay Items • Z – IDOT Special Pay Items for Road and Bridge Construction

☐	Special Provisions – Continued LCDOT Special Provisions Doing Business LCDOT Special Provisions ***(HEADING – Section 100 Specs A.doc)*** ---------- The Document shall be modified as required. Fill in the project description and location information. Please note that many specs have "red" notes that will need to be deleted. Insert required and desired individual pay item special provisions under the appropriate DIVISION headings ---------- ***(The special provisions for pay items shall be arranged in numerical order followed by LC, X, XX and Z prefixed items. Pay items covered by the LCDOT Traffic Control and Protection Special Provision; LCDOT and/or IDOT D-1 Traffic Signal Special Provisions; IDOT BDE Special Provisions; IDOT D-1 Special Provisions; IDOT Local Roads (LR); IDOT Guide Bridge Special Provisions and/or other IDOT Special Provisions shall be included in the appropriate sections).***		The LCDOT special provision for **Traffic Control and Protection (Special)** pay code X7010216 shall not be included under the IDOT Design Temporary Pay Items. Individual LCDOT Traffic special provisions that include a pay code in the title shall be inserted in the appropriate Division e.g. X1400217 TERMINATE FIBER IN CABINET will be included under IDOT Design Temporary Pay Items. Traffic special provisions without a specific pay code in the title shall be included under section 13 below. IDOT District 1 **Traffic Signal Specifications** shall **not** be inserted under the Division 700, Division 800, LC, X, XX or Z sections in the Heading document. They shall be included in section 14 below.
☐	12. LCDOT Traffic Control and Protection (Special) LCDOT is currently using the following pay item: X7010216 TRAFFIC CONTROL AND PROTECTION (SPECIAL) LUMP SUM LCDOT Traffic Specs Doing Business LCDOT Special Provisions		This document shall **not** be reformatted, revised and/or re-paged except to add the following information: Modify the Header to match the project name and section number from the **HEADING – Section 100 Specs A** file. On the Traffic Control Plan (1st page) fill in the appropriate IDOT Traffic Control Highway Standard numbers (include the current extension e.g. 701901-01) under STANDARDS paragraph. Fill in the applicable Lake County Traffic Control Standard numbers under DETAILS paragraph and include any applicable LR special provisions under RECURRING SPECIAL PROVISIONS paragraph. Delete blank rows on the first page as needed to eliminate a blank 2nd page.

SPECIFICATIONS DOCUMENT FORMAT
LOCALLY LET / NON-FEDERAL PROJECTS

☐	13. LCDOT Traffic Signal Special Provisions LCDOT Traffic Specs Doing Business LCDOT Special Provisions	☐ Not Required		Individual LCDOT Traffic special provisions that include a pay code in the title shall be inserted in the appropriate Division above e.g. X1400217 TERMINATE FIBER IN CABINET will be included under IDOT Design Temporary Pay Items. When LCDOT traffic signal special provisions are required this section shall begin with the **LC800.01 – LCDOT TRAFFIC SIGNAL GENERAL REQUIREMENTS** special provision. Individual Traffic special provisions without a specific pay code in the title shall follow the LCDOT Traffic Signal General Requirements special provision e.g. LUMINAIRES, FIBER OPTIC CABLE, ELECTRIC CABLE, TRAFFIC SIGNAL POSTS, STEEL MAST ARMS, CONCRETE FOUNDATIONS etc.., shall be located here. The individual special provisions shall be placed in LC850.XX numeric order. The LCDOT Traffic Signal General Requirements special provision shall **not** be reformatted, revised and/or re-paged except to revise the Section Number in the Header.
☐	14. IDOT District 1 Signal Special Provisions District 1 Traffic Specs **NOTE:** The IDOT D1 specs are generally not available on line and need to be requested from D1. Designers should request the latest special provisions from D1 just prior to assembling the document.	☐ Not Required		Like the LCDOT Traffic special provisions this is no longer a single document. The appropriate IDOT D-1 specifications shall be combined in a single word document. A header consisting of following shall be inserted in the upper right corner: Section XX-XXXXX-XX-XX IDOT D1 Pg TS-X The margins shall be changed to 1" top, bottom, left & right. Try not to break paragraphs from page to page. Move specs with just the title & description on the bottom of the page to the next page. For IDOT signals start with Special provision 800.01TS TRAFFIC SIGNAL GENERAL REQUIREMENTS. The applicable special provisions shall be added in numerical order (8XX.XXTS). For LCDOT Signals include only the applicable special provisions in Numerical order (8XX.XXTS).

SPECIFICATIONS DOCUMENT FORMAT
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☐	15. FEPC Insert LCDOT Spec Book Forms			This form is in pdf format in the Spec Book Forms folder
☐	16. LRS 11 LCDOT Spec Book Forms			This form is in pdf format in the Spec Book Forms folder
☐	17. Letting Month Wage Rates – Illinois Department of Labor: LCDOT Spec Book Forms			Effective 8/15/18 IDOL no longer separates out the Lake County Rates. The current rates are available in pdf format in the Spec Book Forms folder.
☐	18. Check Sheet for Recurring Special Provisions – check the applicable items. The check sheet & usage guide is available at IDOT Manuals & Guides In the "Find on Page" box enter "check" to isolate the check sheet and "usage" to target the usage guide.			Use the current year check sheet (a revised check sheet is issued with each year's Supplemental and Recurring Specification publication). Use the latest IDOT "Usage" guide to determine if a specification applies.
☐	19. Applicable IDOT Bureau of Design and Environment (BDE) Special Provisions (***Put the special provisions in numerical order)***	☐ Not Required		IDOT BDE Special Provisions are available at: IDOT BDE Specs - Select Letting Specific Items Note all the BDE Specs are in a single .pdf file. Do not include the BDE Spec for RAP/RAS.
☐	20. Applicable IDOT District 1 Special Provisions	☐ Not Required		For LCDOT IDOT special provisions are located at LCDOT - D1 Specs D1 Special Provisions are not available on the IDOT Web Site – See Note 3 below. At this time LCDOT should use the D1 special provision for Maintenance of Roadways, Friction Aggregate, RAP/RAS and HMA Mixture Design Requirements. Include the D1 Special Provision Maintenance of Roadways on all LCDOT resurfacing, 3R, Reconstruction & Intersection projects.
☐	21. Other Applicable IDOT Bureau Special Provisions ***(In numerical order)***	☐ Not Required	BMPR BC	Other bureau special provisions are available at: IDOT Other Specs Select M (top of page) for Bureau of Materials & C for Bureau of Construction
☐	22. Applicable LR Special Provisions ***(In numerical order)***	☐ Not Required		IDOT LR Special Provisions are available at: IDOT Local Roads Specs Include LR107-4 and list local units of government.
☐	23. Applicable Guide Bridge Special Provisions ***(In numerical order)***	☐ Not Required		IDOT Guide Bridge Special Provisions are available at: IDOT Manuals & Guides In the "Find on Page" box enter "gb" to isolate the Guide Bridge Special Provisions.

SPECIFICATIONS DOCUMENT FORMAT
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☐	24. Plan Sheets: Drawings; Quantity Schedules; Summary of Quantities; Project Maps; etc.… **(Include here if a separate plan set is not used)**	☐ Separate Plan Set		Put these sheets (if applicable) in the following order: • Project Location Map(s) • Typical Sections • HMA Mixture Requirements Table • Quantity Schedule(s) • Summary of Quantities - with Engineer's signature & seal • General Notes (Follows Header file for Township Projects) • Traffic Control Plan
☐	25. IDOT Highway Standards ***(In numerical order)***	☐ Separate Plan Set		IDOT Highway Standards will normally be included in the plans. Include here in the Special Provisions if there isn't a separate plan set. IDOT Standards available at: IDOT Highway Standards
☐	26. Highway Standard Details – LCDOT LCDOT Standards Doing Business LCDOT Standards ***(In numerical order)***	☐ Separate Plan Set		LCDOT Highway Standard Details will normally be included in the plans. Include here in the Special Provisions if there isn't a separate plan set.
☐	27. ESRF Form(s) – with instructions and related release form. LCDOT Spec Book Forms	☐ Not Required	BDE 2289 & BDE 2290	BDE 2289 is used for borrow (fill, topsoil etc..) areas and BDE 2290 is used for use and waste areas. Fill in the Route (CH #); Marked (Road Name); County (LAKE); District (1); and Section (XX-XXXXX-XX-XX) boxes. Print out the forms and scan to include in the Spec Book. Don't merge/combine the pdf forms into the specs. For BDE 2289 include the PDF for BDE 2289 Instructions from the Spec Book Forms folder.
☐	28. Construction Debris - Special Provision for Construction Debris and Construction Debris Manifest form. LCDOT Spec Book Forms			The special provision and manifest form are in pdf format in the Spec Book Forms folder.

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☐	29. Stormwater Pollution Prevention Plan and Documents (NPDES) LCDOT Spec Book Forms ***(If applicable)***	☐ Not Required	BDE 2342 BDE 2342a BC 2259	The Stormwater Pollution Prevention Plan and Documents will include the following: • BDE 2342 Storm Water Pollution Prevention Plan (Use the LCDOT version - *Signed by County Engineer)* • BDE 2342 Contractor's Certification Statement • BC 2259 Storm Water Pollution Prevention Plan Erosion Control Inspection Report • IL 532 2103 Notice of Intent (NOI) • IL 532 2105 Incidence of Non-compliance (ION) • IL 532 2102 Notice of Termination (NOT) NOI, ION & NOT forms are located at the IEPA web site IEPA forms under Storm Water Permits
☐	30. US Army Corps of Engineer's Sec. 404 Permit ***(If applicable)***	☐ Not Required		The Army Corps Permit documents usually include: • Regional Permit Program / Individual Permit Authorization • Permit Compliance Certification • General Conditions Applicable to All Regional Permits or Conditions included with the issuance of an Individual Permit. • Chicago District Regional Permit Program
☐	31. Lake County Watershed Development Permit ***(If applicable)***	☐ Not Required		The LCSMC Permit documents include: • WDO Green Permit Card • Signed Permit Application • WDO Permit Letter
☐	32. IEPA Forms LPC 662 / LPC 663	☐ Not Required		For excess earth (>20 cy) include copy of the 662/663 forms.
☐	33. Miscellaneous Documents	☐ Not Required		• Include other relevant documents e.g. railroad agreements etc… Note many of these documents may need to be scanned. • Soil Reports/CCDD Documents will be posted to the web site as a separate document. • For Traffic Control requiring signs in Cook County Include the Cook County Permit here.

SPECIFICATIONS DOCUMENT FORMAT
LOCALLY LET / NON-FEDERAL PROJECTS

Notes:

1. All Documents shall be prepared in Word/PDF format. Word documents will be converted to or printed to a pdf files. The individual files will be combined into a single PDF document. The only scanned documents allowed are pages with signatures and permits where an electronic copy is not available. The IDOT check sheet will be printed to a pdf file to remove the colored bar at the top. The IDNR forms if required will be printed and scanned to remove the colored bar at the top of the page.

2. LCDOT form and document links i.e. links beginning with LCDOT, are to LCODT internal locations (U drive). Links beginning with Doing Business are for consultant use and link to the Lake County website, Doing Business tab of the LCDOT section. Links beginning with IDOT are to web site locations.

3. IDOT District 1 special provisions are not available on the IDOT website. Periodically (3-4 times a year) we request updates from Local Roads and post them to our internal (LCDOT) drive. District 1 Special Provisions Consultants may need to contact Local Roads for updates.

SPECIFICATIONS DOCUMENT FORMAT
LOCALLY LET / NON-FEDERAL PROJECTS

LETTING FORMS

Locally let projects require the following forms (except as noted). If possible submit all the project forms for the County Engineer's signature together. Give printed copies of the completed forms to the Design Secretary.

Used	Form		Notes
☐	BLR 12200	Contract Specifications - Cover Page	Select the appropriate version for the project funding (MFT vs Non-MFT). Convert the completed document to a .pdf file. Print the cover page (1st page) to paper for the County Engineer's signature (Signs for IDOT on MFT projects and signs for LCDOT on all projects). Scan the signed page to insert in the Final Contract Specifications. Insert the County Engineer's signature date into the Proposal Page (page 3).
☐		Project Plans – Cover Sheet	Only required for projects with a separate set of plans. The design engineer (consultant or LCDOT engineer) signs and seals the cover sheet. The County Engineer signs the cover sheet just like the cover page for the contract specifications (Signs for IDOT on MFT projects and signs for LCDOT on all projects).
☐		LCDOT Spec Book Pub (LCDOT)	Complete the fill-in Spec Book Pub for the project. The proposed improvement may be copied from page 1 of the contract specifications (may require some editing). For projects with similar items pay codes may be combined e.g. Thermoplastic Pavement Markings – Line 4", 5", 6", 8" & 12".
☐	BLR 12310	Contractor's Bulletin Request for Advertisement (IDOT)	Complete the fill-in pdf form. Use the pull downs to select dates, names etc… Copy the completed pdf into: U:\Design\Electronic Project Files\20XX\letting date\IDOT Publications Folder. File name should be LCDOT BLR 12310 – Project Name
☐		Engineer's Estimate (LCDOT CODEF)	Prepare the Engineer's Estimate in CODEF. Format the spreadsheet (see examples in template folder). The design engineer (consultant or LCDOT engineer) signs and seals the cover. For MFT funded projects the County Engineer signs for LCDOT and IDOT. For Non-MFT projects insert "NOT APPLICABLE" on the IDOT signature & date lines.

PAY ITEM CHECKLIST

Depending on the project the following pay items may be required as contingency items (see notes)

Used	Pay Item		LCDOT Special Provision	Notes
	Pay Code	Description		
☐	20200100	EARTH EXCAVATION	YES	A contingency quantity needs to be included for sidewalk/curb ramps removal and replacement when there is no other earthwork on the project. (Typical for resurfacing projects with sidewalk/ramp work) For projects with SPECIAL WASTE the quantity of SPECIAL WASTE shall be included in the quantity of EARTH EXCAVATION
☐	21301052	EXPLORATION TRENCH 52 INCH DEPTH	YES	100 ft - 150 ft contingency quantity typically included on LCDOT projects.
☐	40600400	MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	NO	Contingency quantities of 10 - 20 tons included on LCDOT resurfacing/3R projects.
☐	406005XX	LEVELING BINDER (HAND METHOD) NXX	YES	
☐	44000500	COMBINATION CURB AND GUTTER REMOVAL	NO	For resurfacing and 3R projects with existing curb and gutter a quantity should be included for specified and/or contingency spot repairs
	60603900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT	YES	
	60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT	YES	

☐	50200100	STRUCTURE EXCAVATION	NO	A contingency quantity should be included if the project includes a pay item for 50300225 CONCRETE STRUCTURES (cy)
☐	60100905	PIPE DRAINS 4”	YES	100 ft - 150 ft contingency quantities of each typically included on resurfacing, 3R or LCDOT projects.
	60100915	PIPE DRAINS 6”	YES	
☐	0300105	FRAMES AND GRATES TO BE ADJUSTED	YES	For resurfacing and 3R projects with existing curb and gutter a quantity should be included for specified and/or contingency spot repairs.
	60300305	FRAMES AND LIDS TO BE ADJUSTED		
☐	LC200051	REJECTED LOAD TRANSPORTATION	YES	For projects with earth excavation and CCDD (662 or 663 for more than 20 cy excess soil to be taken to a CCDD facility) include a contingency quantity of 3 – 7 loads.
☐	LC200501	MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS	YES	Include this pay item on LCDOT projects with temporary erosion control systems e.g. perimeter erosion barrier, inlet filters, seeding/sodding, temporary ditch checks etc… Use the spreadsheet Calculation of Maintenance of Temporary Erosion Control Systems in U:\Everyone\Lcdot\standards\design\spreadsheets to determine the quantity.
☐	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	YES	**Use this pay item only after consulting with LCDOT Survey!** Use for LCDOT resurfacing projects when the existing markings have not been surveyed and the Contractor will be required to lay out the proposed markings.

☐	XX003668	PRECONSTRUCTION VIDEO TAPING	YES	**Use this pay item only after consulting with LCDOT Construction.** Use for LCDOT projects where the potential for damage to adjacent properties may exist and where the Contractor could dispute the cause of the damage. (Typically used in populated areas with entrances to the project roadway)
☐	XX006658	FLOCCULATION LOGS	YES	Include a contingency quantity (5-10 logs / 5-10 lbs powder) on projects where a treatment train or other runoff treatment may be required.
☐	XX006658	FLOCCULATION POWDER		
☐	XX008865	PERMEABLE PLASTIC BERM	YES	Include this pay item when 28000305 TEMPORARY DITCH CHECKS are included on the project (same length) or as a contingency quantity when there is the possibility of a treatment train requirement.
☐	Z0013798	CONSTRUCTION LAYOUT	YES	**Use this pay item only after consulting with LCDOT Survey!** Use for LCDOT projects when the Contractor will be required to lay out the entire project.

STATE OF ILLINOIS
COUNTY OF LAKE
PLANS FOR PROPOSED MILLER ROAD RESURFACING
SECTION 14-00118-11-RS

EXHIBIT 1

INDEX OF SHEETS

SHEET No.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5 - 8	SCHEDULE OF QUANTITIES
9 - 20	REMOVAL SHEETS
21 - 32	PLAN SHEETS
33 - 38	TRAFFIC CONTROL PLAN
39	TRAFFIC SIGNAL PLAN
40	DETAIL SHEET
41 - 42	CROSS SECTIONS
43 - 50	LCDOT STANDARD DETAILS
51 - 79	IDOT HIGHWAY STANDARDS

IDOT HIGHWAY STANDARDS

000001-06 (8 SHT)	701011-04
280001-07 (2 SHT)	701311-03
630001-10 (4 SHT)	701501-06
630201-06	701901-05 (3 SHT)
630301-06 (2 SHT)	780001-05 (3 SHT)
701001-02	886001-01
701006-05	

Current D1 HMA mixture table notes

LCDOT STANDARD DETAILS

LC2051	LC6304	LC7004	LC7802
LC4100	LC6310	LC7200	LC7805
LC4120	LC7000	LC7800	LC8600

List of standards on the cover sheet as shown or with the General Notes

PAVEMENT DESIGN FOR RESURFACING

IBR Value (for resurfacing only assume 3.00) => 3.00

REQUIRED STRUCTURAL NUMBER => 3.64

MILLING DEPTH => 3.75 INCHES
HOT-MIX ASPHALT SURFACE COURSE THICKNESS => 1.50 INCHES
HOT-MIX ASPHALT BINDER COURSE THICKNESS => 2.25 INCHES
HOT-MIX ASPHALT LEVELING BINDER (NOMINAL) THICKNESS =>
HOT-MIX ASPHALT BASE COURSE THICKNESS =>

DYNAFLECT EQUIVALENT STRUCTURAL VALUE OF EXISTING PAVEMENT = 2.89

STRUCTURAL VALUE LOSS DUE TO MILLING (0.2 PER MILLING DEPTH INCH) = -0.75

STRUCTURAL VALUE GAIN DUE TO PROPOSED HOT-MIX ASPHALT OVERLAY (0.4 PER HOT-MIX ASPHALT INCH THICKNESS) = 1.50

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	PG 64-22	4% = 70 GYRATION
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	PG 64-22	4% = 70 GYRATION
LEVELING BINDER (MACHINE METHOD), N70	PG 64-22	4% = 70 GYRATION

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

FOR UNDERGROUND UTILITY LOCATIONS, CALL

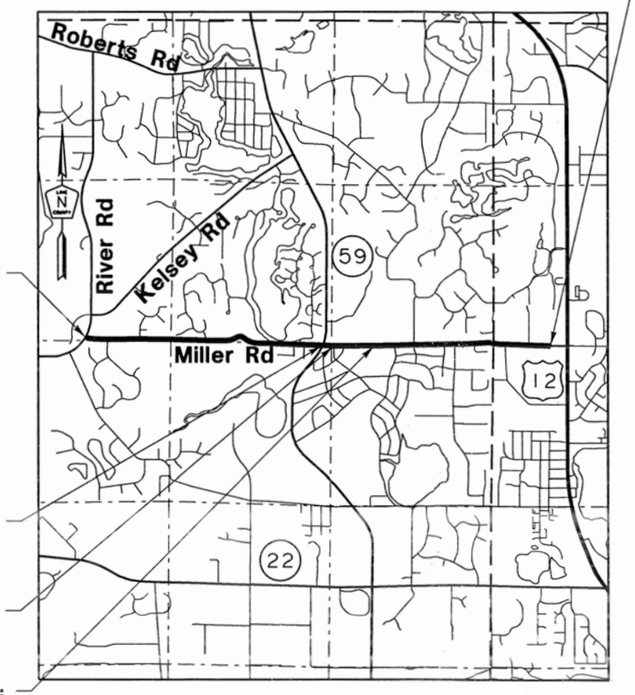
J. U. L. I. E.

TOLL FREE

800-892-0123

JULIE Dig note on all cover sheets

PROJECT LOCATION



Begin; End; and Omission Sta Labels

ROAD	STATION	STATION	LENGTH (FT.)	LENGTH (MI.)
MILLER ROAD	0+16	153+86	15356.3*	2.91
NET LENGTH OF IMPROVEMENT			13447.3	2.55

*STATION EQUATION: STA. 82+27.70BK = STA. 82+41.40AH (-13.7')

Include project length table

LICENSED PROFESSIONAL ENGINEER
PHILIP D. RUIZ
062-063586

Signature Block for non-MFT project. The LCDOT logo should be replaced by the firm preparing the plans.

Plans Prepared By: LakeCounty Division of Transportation

Signature: Philip Ruiz
Date: 3/17/16
Illinois License No: 62-063586
Expiration Date: 11/30/17
Field: CIVIL
Approved By: P. J. Trigg, County Engineer
Date: 3/17/16

14-00118-11-RS

MILLER ROAD RESURFACING

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	HDI8572 3/15/2016

MILLER ROAD RESURFACING
COVER SHEET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH2	118	14-00118-11-RS	1	79

FILE NAME: U:\Design\Ruiz\14-00118-11-RS Miller Road Resurfacing\Plans\14-00118-11-RS cover sheet.dgn

STATE OF ILLINOIS
COUNTY OF LAKE
PLANS FOR PROPOSED
WASHINGTON STREET (A22)
FROM HAINESVILLE ROAD TO HARYAN WAY
SECTION 11–00121–10–WR

EXHIBIT 1

INDEX OF SHEETS

SHEET No.		DESCRIPTION
1		COVER SHEET
2		INDEX OF STANDARDS
3 TO 4		GENERAL NOTES
5 TO 11	SOQ 1 TO 7	SUMMARY OF QUANTITIES
12 TO 26	SHD 1 TO 15	SCHEDULE OF QUANTITIES
27 TO 32	TYP 1 TO 6	TYPICAL SECTIONS
33 TO 34	ALI 1 TO 2	ALIGNMENT, TIES, AND BENCHMARKS
35 TO 66	MOT 1 TO 32	SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL
67 TO 72	REM 1 TO 6	REMOVAL PLAN
73 TO 87	PP 1 TO 15	ROADWAY PLAN AND PROFILE
88 TO 89	JNT 1 TO 2	PAVEMENT JOINT AND ELEVATION PLAN
90 TO 94	SW 1 TO 5	SIDEWALK CURB RAMP DETAILS
95	DTL 1	MAILBOX DETAIL
96 TO 106	DU 1 TO 11	DRAINAGE PLAN AND PROFILE
107 TO 112	DU 12 TO 17	DRAINAGE AND UTILITY SCHEDULES
113 TO 117	DU 18 TO 22	TEMPORARY DRAINAGE PLAN
118	DU 23	BASIN GRADING PLAN
119 TO 120	DU 24 TO 25	DRAINAGE DETAILS
121 TO 137	DU 26 TO 42	UTILITY PLAN AND PROFILE
138 TO 143	DU 43 TO 48	SANITARY LIFT STATION
144 TO 148	DU 49 TO 53	UTILITY AND WATER MAIN DETAILS
149 TO 172	PLAT 1 TO 24	PLAT OF HIGHWAYS
173 TO 177	PMK 1 TO 5	PAVEMENT MARKING AND LANDSCAPING PLAN
178 TO 191	ERO 1 TO 14	EROSION AND SEDIMENT CONTROL PLAN
192 TO 210	SGL 1 TO 19	TRAFFIC SIGNAL PLANS
211 TO 224	STR 1 TO 14	RETAINING WALL PLANS
225 TO 334		WASHINGTON STREET CROSS SECTIONS
335 TO 358		LAKE COUNTY STANDARDS & DETAILS
359 TO 370		IDOT DISTRICT 1 STANDARD DETAILS
371 TO 439		IDOT HIGHWAY STANDARDS

DESIGN DESIGNATION

WASHINGTON STREET 2160 (23) ARTERIAL 1.67 (PCC-20)

Design Designation

RIGID PAVEMENT DESIGN

DATE =	05/16/2011
PROJECT =	WASHINGTON STREET
YEAR OF ADT =	2009
ADT =	16,300
DESIGN PERIOD IN YEARS =	20
CONSTRUCTION YEAR =	2015
STRUCTURAL DESIGN TRAFFIC (SDT) =	17,433
PC =	96.5% = 16,823
SU =	2.50% = 436
MU =	1.00% = 174
CLASS ROAD (1, 2, 3, 4) =	1
SUBGRADE SUPPORT RATING =	POOR
TRAFFIC FACTOR =	1.67
SHOULDER TYPE =	TIED CC&G
TRANSVERSE JOINT SPACING (FEET) =	12.5
PAVEMENT THICKNESS REQUIRED (INCHES) =	8.0
SUBGRADE =	12" AGG

FOR UNDERGROUND UTILITY LOCATIONS, CALL

J. U. L. I. E.

TOLL FREE
800-892-0123

PROJECT LOCATION N.T.S.

END RECONSTRUCTION
HAINESVILLE ROAD
STA. 45 + 68.88
(MOT LIMIT 49 + 73.26)

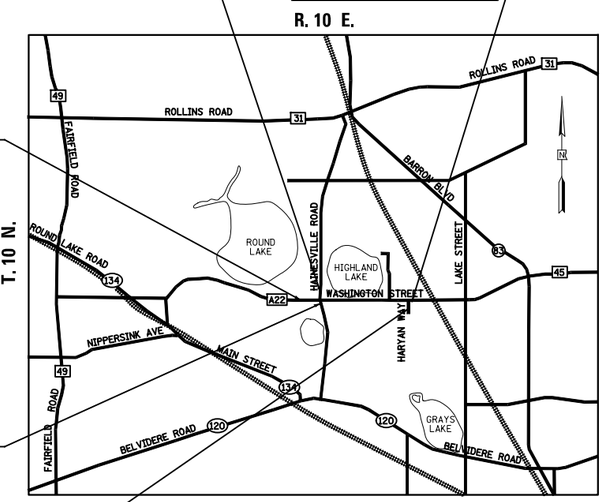
END RECONSTRUCTION
WASHINGTON STREET
STA. 104 + 75.00
(MOT LIMIT 109 + 00.00)

BEGIN RECONSTRUCTION
WASHINGTON STREET
STA. 50 + 61.60
(MOT LIMIT 48 + 90.11)

Township & Range Labels

BEGIN RECONSTRUCTION
HAINESVILLE ROAD
STA. 43 + 61.74
(MOT LIMIT 39 + 67.30)

BEGIN RECONSTRUCTION
HARYAN WAY
STA. 9 + 08.25
(MOT LIMIT 5 + 97.19)



ROAD	STATION	STATION	LENGTH (FT.)	LENGTH (MI.)
WASHINGTON STREET	50+61.60	104+75.00	5413.40	1.03
NET LENGTH OF IMPROVEMENT			5413.40	1.03

GROSS LENGTH = 5,413.40 FEET = 1.03 MILE
NET LENGTH = 5,413.40 FEET = 1.03 MILE

Non-MFT project. Route number from Lake County Map (boxed number)

Plans Prepared By:

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com
(p) 630.795.7200

Signature:
Date:
Illinois License No: 062-062776
Expiration Date: 11/30/15
Field: CIVIL
Approved By: County Engineer
Date:

PATRICK ENGINEERING, INC.	PATRICK ENGINEERING, INC.	PATRICK ENGINEERING, INC.	PATRICK ENGINEERING, INC.	BOLLINGER, LACH & ASSOCIATES
MICHAEL J. PINE, P.E.	SARAH L. CZAPLICKI, P.E., S.E.	GARY GOODHEART, P.E.	DONALD E. FREESTON, P.E.	ERIK R. OLSON, P.E.
NO. 062–062776	NO. 081–006191	NO. 062–055909	NO. 062–059453	NO. 062–054976
EXP. DATE: 11/30/15	EXP. DATE: 11/30/16	EXP. DATE: 11/30/15	EXP. DATE: 11/30/15	EXP. DATE: 11/30/15
APPLY TO DRAWINGS: 1–26, 33–95, 225–334	APPLY TO DRAWINGS: 211–224	APPLY TO DRAWINGS: 96–109, 112–138, 144–145, 178–191	APPLY TO DRAWINGS: 139–143	APPLY TO DRAWINGS: 27–32, 110–111, 146–177, 192–210

REVISIONS / REMARKS

NO.	DESCRIPTION	DATE	BY

SURVEYOR:	
DSGNR/LIAISON:	
PLOTTED BY:	mpineV8i(Rdwy_Lisle)

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com
(p) 630.795.7200

LakeCounty
Division of Transportation

WASHINGTON STREET FROM HAINESVILLE ROAD TO HARYAN WAY
COVER SHEET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
A22	121	11-00121-10-WR	1	439

FILE NAME: Q:\LCDOT\2ll50_005\Drawings\shts\Rd\S_TitleVolume1.dgn

11–00121–10–WR
WASHINGTON STREET FROM HAINESVILLE ROAD TO HARYAN WAY

EXHIBIT 1

STATE OF ILLINOIS
COUNTY OF LAKE
PLANS FOR PROPOSED ELA ROAD RESURFACING
SECTION 15-00144-21-RS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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9 - 10	TYPICAL SECTIONS - SIDEWALK
11 - 21	SCHEDULE OF QUANTITIES
22 - 26	REMOVAL AND ADJUSTMENT ITEMS
27 - 31	PLAN SHEETS - RESURFACING
32 - 36	PLAN SHEETS - SIDEWALK
37 - 39	TRAFFIC CONTROL PLAN
40 - 42	EROSION CONTROL PLAN
43	RETAINING WALL DETAILS
44 - 47	RAMP & ENTRANCE DETAILS
48 - 50	PROJECT DETAILS
51	PASSAGE NETWORK TRAFFIC COUNTERS
52 - 55	US 12 & ELA ROAD TRAFFIC SIGNAL PLANS (FOR INFORMATION ONLY)
56 - 94	CROSS SECTIONS
95 - 110	LCDOT DETAILS (See Sheet 3 for list)
111 - 148	IDOT HIGHWAY STANDARDS (See Sheet 3 for list)
149 - 150	Village of Lake Zurich Details

IDOT & LCDOT Standards list included with the General Notes

PAVEMENT DESIGN FOR RESURFACING

Cuba Rd. To IL Route 22.

IBR Value (for resurfacing only assume 3.00)	=> 3.00
REQUIRED STRUCTURAL NUMBER	=> 4.479
MILLING DEPTH	=> 2.25 INCHES
HOT-MIX ASPHALT SURFACE COURSE THICKNESS	=> 1.50 INCHES
HOT-MIX ASPHALT BINDER COURSE THICKNESS	=> 0.00 INCHES
HOT-MIX ASPHALT LEVELING BINDER (NOMINAL) THICKNESS	=> 0.75 INCHES
HOT-MIX ASPHALT BASE COURSE THICKNESS	=> 0.00 INCHES
DYNAFLECT EQUIVALENT STRUCTURAL VALUE OF EXISTING PAVEMENT	= 4.03
STRUCTURAL VALUE LOSS DUE TO MILLING (0.2 PER MILLING DEPTH INCH)	= -0.45
STRUCTURAL VALUE GAIN DUE TO PROPOSED HOT-MIX ASPHALT OVERLAY (0.4 PER HOT-MIX ASPHALT INCH THICKNESS)	= 0.90

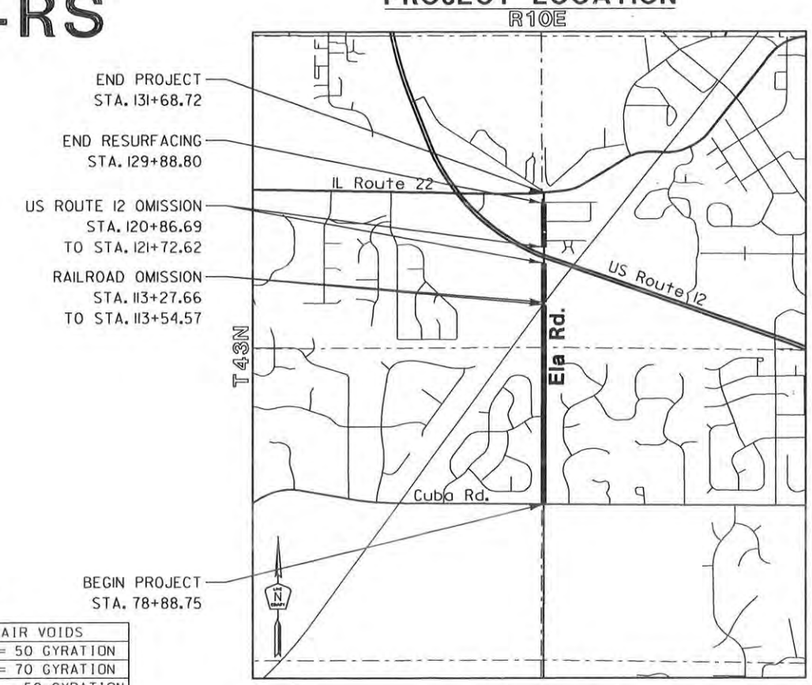
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	PG 64-22	4% = 50 GYRATION
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	PG 64-22	4% = 70 GYRATION
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	PG 64-22	3.5% = 50 GYRATION
LEVELING BINDER (HAND METHOD), N70	PG 64-22	4% = 70 GYRATION

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

PROJECT LOCATION



ROAD	STATION	STATION	LENGTH (FT.)	LENGTH (MI.)
ELA ROAD	78+88.75	131+68.72	5279.97	1.000
CN RAILROAD OMMISSION	113+27.66	113+54.57	(26.91)	(0.005)
US ROUTE 12 OMMISSION	120+86.69	121+72.62	(85.93)	(0.016)
NET LENGTH OF IMPROVEMENT			5167.13	0.979

ELA ROAD RESURFACING 15-00144-21-RS

MFT project - County Engineer for IDOT under MOU (1-18-13)

RICHARD D. McMORRIS 062-055379 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

FOR UNDERGROUND UTILITY LOCATIONS, CALL

J. U. L. I. E.

TOLL FREE

800-892-0123

BUILDING LAKE COUNTY'S EFFECTIVE TRANSPORTATION SYSTEM TODAY

APPROVED
DEPARTMENT OF TRANSPORTATION

DATE FEB 19 20 16

Paula J. Trigg
Regional Engineer

County Engineer
On behalf of IDOT pursuant to Agreement of Understanding dated January 18, 2013

Plans Prepared By: LakeCounty Division of Transportation

Signature: [signature]
Date: 19 February 2016
Illinois License No: 62-055379
Expiration Date: 11/30/17
Field: CIVIL
Approved By: Paula J. Trigg, County Engineer
Date: 2/19/16

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	KDN
		/ /		PLOTTED BY:	hdl7512 2/18/2016

SCALES HORIZ. 0 20 40

ELA ROAD RESURFACING

LakeCounty Division of Transportation

ELA ROAD RESURFACING
COVER SHEET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	1	150

FILE NAME: U:\Design\Nauman\15-00144-21-RS Ela Rd Resurfacing\Plans\15-00144-21-RS.dgn

Current version of General Notes are available on the LCDOT web site

Exhibit 2

LCDOT GENERAL NOTES
(Revised 1/5/15)

1. GENERAL

   a. All construction shall be done according to the State of Illinois "Standard Specifications for Road and Bridge Construction" adopted April 1, 2016; the "Supplemental Specifications and Recurring Special Provisions, adopted April 1, 2016; the latest edition of the "Illinois Manual on Uniform Traffic Control devices for Streets and Highways"; the details in these plans, and the Special Provisions included in the contract documents.

   b. The Contractor shall notify the Engineer at least 72 hours prior to beginning work and shall coordinate all construction operations with the Engineer.

   c. The Contractor shall coordinate his/her work with any adjacent projects that are or may be under construction.

   d. The Contractor shall verify all dimensions and existing conditions in the field prior to ordering materials and beginning construction. Where new work is proposed to meet existing features, it shall be the Contractor's responsibility to field check all dimensions and elevations and notify the Engineer of discrepancies before proceeding with construction.

   e. The Contractor shall provide access to abutting properties at all times during construction, except for brief periods of interruption. The Contractor shall notify the property owner no less than 24 hours in advance of the interruption of access and/or services. The notification will include the time and duration of the interruption. The cost to provide access shall be paid for and included in the cost of TRAFFIC CONTROL AND PROTECTION (SPECIAL)

2. SURVEY

   a. All elevations shown on these plans are based upon the North American Vertical Datum of 1988 (NAVD 88). The elevations shown on the plans are for finished grades unless otherwise noted.

   b. Where section or subsection monuments are encountered, the Engineer shall be notified before the monuments are removed. The Contractor shall carefully preserve all property marks and monuments until the owner, authorized surveyor or agent has witnessed or otherwise referenced their location.

   c. All radii for proposed curb and gutter are to the edge of pavement unless otherwise noted.

3. REMOVAL

   a. All excess material shall be disposed of offsite on the day it is excavated or removed.

   b. The Contractor is prohibited from burning any material within or adjacent to the project limits. All excess or waste material shall be hauled away from the project site by the contractor and legally disposed of outside the right-of-way. No extra compensation will be allowed the contractor for any expense incurred by complying with the requirements of this note.

4. DRAINAGE

   a. Unless otherwise noted on the plans, the existing drainage facilities shall remain in use during the period of construction. During construction operations the Contractor shall ensure positive site drainage at the conclusion of each day. Site drainage may be achieved by ditching, pumping, or any other method acceptable to the Engineer.

   b. The Contractor shall confirm all existing storm sewer pipe sizes and inverts prior to ordering structures. Any modification of structures due to the failure of the Contractor to perform this task shall be at the Contractor's expense and may lead to the rejection of the structure in the field if the modification is not approved by the Engineer.

   c. If during construction, the Contractor encounters or otherwise becomes aware of any sewers or underdrains within the right-of-way other than those shown on the plans, he/she shall inform the Engineer, who shall direct the work necessary to maintain or replace the facilities in service and to protect them from damage during construction if maintained. Existing facilities to be maintained that are damaged because of non-compliance with this provision shall be replaced at the Contractor's own expense. Should the Engineer direct the replacement of a facility, the necessary work and payment shall be according to Sections 550 and 601, and Article 104.02 of the "Standard Specifications".

4. DRAINAGE (CONTINUED)

   d. When existing drainage facilities are disturbed, the contractor shall provide and maintain temporary outlets and connections for all private or public drains, culverts, sewers or catch basins. The Contractor shall provide facilities to take in all storm water which will be received by these drains and sewers and discharge the same. The Contractor shall provide and maintain an efficient pumping plant, if necessary, and a temporary outlet. The Contractor shall be prepared at all times to dispose of the water received from temporary connections until such time as the permanent connections with sewer are built and in service. This work will not be paid for separately, but shall be included in the cost of the storm sewers and drainage structures installed as part of this project.

   e. The Contractor shall determine when flat slab tops are required on manholes and catch basins. Restricted depth manholes and catch basins shall be constructed according to LCDOT standard LC6000. Sumps, where required, will be included in the unit price of the restricted depth structure. No additional compensation shall be allowed for the use of flat slab tops.

   f. All existing drainage facilities, headwalls and fences no longer required, in the opinion of the Engineer, shall be removed. The cost of removal of existing pipe culverts, storm sewers, drainage structures, concrete headwalls, fencing or other obstructions which interfere with the proposed improvements and which are not shown to be removed as a separate pay item shall be considered included in the cost of EARTH EXCAVATION.

   g. Top of frame (rim) elevations shown on the plans are only to assist the Contractor in determining the approximate overall height of the structure. Frames on all new structures shall be adjusted to the final elevations of the areas in which they are located as part of the structure cost. Any plating of the structure required for staged construction shall be included in the cost of the structure.

   h. Unless otherwise noted, locations shown on the plans are to the edge of pavement for structures in the curb and to the center of the structure for all other structures. All top of frame (rim) elevations for structures located in the curb and gutter are at the edge of pavement. See the LCDOT detail for Drainage Structure Rim Elevations and Offsets LC6003. Drainage structure flat-tops and cones shall be turned so that the frames are closest to the centerline of the lane unless otherwise noted. All flat-tops and cones are assumed to be eccentric unless otherwise noted.

   i. Stations, offsets, and invert elevations for flared end sections are given at the centerline of the outlet end of the flared end section. The flared end section shall be installed at the same slope as the outlet pipe.

   j. Hot-mix asphalt or concrete pavement crossings shall not be left in gravel overnight. This will include the main road, side streets, private entrances, commercial entrances and parking areas. Temporary hot-mix asphalt patching or steel plates (see steel plate special provision) at the Contractor's expense may be used in lieu of immediate pavement replacement.

   k. All field tile encountered during construction operations shall be connected to the proposed storm sewer or extended to outlet into a proposed drainage way. If this cannot be accomplished, then it shall be repaired with new pipe of similar size and material to the original line and put in acceptable operating condition. A record of the location of all field tile or on-site drain pipe encountered shall be kept by the contractor and turned over to the engineer upon completion of the project. An estimated quantity of PIPE DRAINS, 4" and PIPE DRAINS, 6" has been included for this work.

   l. Precast concrete adjustment rings, maximum of 12" in height, will be allowed in the adjustment or reconstruction of catch basin, manhole, inlet and valve vault structures. HDPE plastic and recycled rubber adjusting rings may be used according to Section 602 of the "Standard Specifications". Common brick will not be allowed. All type 8 grates on drainage structures shall be adjusted to plan grade with 4" minimum concrete adjustment rings. The rings shall be included in the cost of the structure.

   m. Couplings used for connections of new pipe to existing pipe and where dissimilar pipe and joint materials are encountered shall be approved by the Engineer prior to installation. No stainless steel shear rings will be allowed. This work will not be paid for separately, but shall be included in the cost of the storm sewer being installed.

5. DRIVEWAYS and ENTRANCES

   a. Existing hot-mix asphalt, concrete, and gravel driveways and entrances shall be re-surfaced to one foot inside the right-of-way with hot-mix asphalt surface course as scheduled on the plans.

   b. Existing concrete driveways and entrances shall be reconstructed to one foot inside the right-of-way with concrete as scheduled on the plans.

   c. Existing hot-mix asphalt driveways and entrances shall be sawcut at the limits of construction line. The surface shall be removed to the sawcut. The aggregate base shall be appropriately prepared, and the driveway shall be resurfaced with Hot-Mix Asphalt Surface Course.

   d. Existing aggregate field entrances shall be built up in place to one foot inside the right-of-way with aggregate base course.

6. LANDSCAPING: Phosphorus Fertilizer Nutrient **shall not** be used on Lake County Highways.

7. MILLED PAVEMENT: When milled pavement is open to traffic, the maximum elevation difference between lanes, at concrete curb and gutter, or existing ground (shoulders, entrances etc…) shall not exceed 1.5 inches. With written approval from the Engineer the maximum elevation difference may be up to 3 inches if the edge of the milling is sloped a minimum 3:1 (H:V).

8. SIGNS

   a. The Contractor will be required to relocate or remove and replace signs which interfere with his\her construction operations, and to temporarily reset all such signs during construction operations according to **Article 107.25 of the "Standard Specifications".**

      - All unused signs shall be returned to the County.
      - Longer posts may be required at some temporary or permanent sign locations to maintain proper sign elevations.

   b. Permanent signing will be furnished and installed by LCDOT.

9. UTILITIES

   a. Location information for underground utility facilities shown on the plans and/or included in the Contract Specifications represents the best information provided to LCDOT, and is only included for the convenience of the Contractor. LCDOT assumes no responsibility for the sufficiency or the accuracy of the location information provided.

   b. Before starting any excavation, the Contractor shall contact "JULIE" at 1-800-892-0123 for field locations of buried electric, telephone, gas, water, sewer, cable, etc.., utility lines (minimum 48-hour notification is required).

   c. The Contractor shall be responsible for any damage or destruction of public or private property according to the special provisions and Article 107.20 of the "Standard Specifications". The Contractor shall restore such property at his/her own expense. The Contractor shall use all necessary precautions and protective measures required to maintain existing utilities, sewers, and appurtenances that must be kept in operation. In particular, the Contractor will take adequate measures to prevent the undermining of utilities and sewers which are still in service.

IDOT no longer uses boxed notes to identify pay item inclusions

List LCDOT and IDOT Standards. List can appear on the Cover Sheet or with the General Notes

10. MAILBOXES

a. According to Article 107.20 of the "Standard Specifications" the Contractor shall remove all mailboxes within the limits of construction which interfere with construction operations. The removed mailboxes shall be erected at temporary locations. As soon as construction operations permit, the Contractor shall set the mailboxes at their permanent locations as directed by the Engineer and approved by the Postmaster. This work is included in the unit bid price of the contract, and no additional compensation will be allowed.

11. MISCELLANEOUS

a. Generally, 10 foot transitions shall be used to match proposed items of work to existing items in the field, unless otherwise shown on the plans. The transitions shall be paid for at the contract unit price for the proposed item of work specified.

b. The Contractor shall not cross completed surface course, or existing pavement not scheduled to be removed, with construction equipment which may damage the pavement.

c. All references in the highway standards and standard specifications for reinforcement, dowel bars and tie bars in pavement, shoulders, curb, gutter, combination curb & gutter and median, and chair supports for continuously reinforced concrete pavement, shall be epoxy coated, unless noted on the plans.

d. The Contractor's attention is called to the fact that some quantities are given in both summary form and on the plan sheets. Care should be taken to avoid duplication of quantities.

12. PROJECT SPECIFIC NOTES

a. Proposed lines and grades shown on the construction plans represent finished grade elevations, unless otherwise noted.

b. All excavation and embankment shall be constructed 4 inches below finished grade line to allow for top soil placement (where top soil placement is specified).

c. The Contractor shall adhere to limits of restoration shown. Areas outside these limits that are damaged or disturbed by the Contractor shall be restored by the Contractor at his/her expense, and no additional compensation will be allowed.

13. COMMITMENTS: No Commitments have been made for this Project.

Include statement of no commitments if applicable

Sections 12 - 16 are project specific.

Utility POC's (legal mandate & damage prevention) are available from the LCDOT Utility Coordinator

BENCHMARKS

NO.	DESCRIPTION	ELEVATION
BM # 8-39AR	CUT SQUARE ON N. SIDE CONCRETE MAST ARM BASE AT SW CORNER OF LEWIS AVENUE & 21ST STREET	701.32
REF BM to 8-39AR	CUT SQUARE ON NE CORNER OF DOUBLE HANDHOLE AT NE CORNER OF LEWIS AVENUE & 21ST STREET	700.62

Benchmarks included here if an Alignment & Ties sheet not required (check with LCDOT Surveyor)

14. POINTS OF CONTACT

Lake County PASSAGE Mr. Jon Nelson, P.E. Engineer of Traffic Ph: (847) 377-7000 Fax: (847) 984-5606	
City of Zion Mr. Ron Colangelo Director of Public Works 3220 W. 27th Street Zion, IL 60099 Ph: (847) 746-4057 Fax: (847) 746-0355	Village of Beach Park Mr. Jon Kindseth Village Administrator 11270 W. Wadsworth Road Beach Park, IL 60099 Ph: (847) 746-1770 Fax: (847) 746-1797

15. UTILITY POINTS OF CONTACT (Legal Mandate – Contact for questions on Utility Plans & Permits)

North Shore Gas Ms. Glannie Chan Supervisory Engineer 3001 Grand Avenue Waukegan, IL 60085 Ph: (847) 263-4687 Fax: (847) 263-3226 Cell: (224) 360-2035 GAChan@peoplesgasdelivery.com	Comcast Mr. Robert Schulter, Manager 688 Industrial Drive Elmhurst, IL 60126 Ph: (630) 600-6347 Fax: (630) 600-6390 bob_schulter@cable.comcast.com Contact first Adm. Assistant: Martha Gieras Ph: (630) 600-6352 martha_gieras@cable.comcast.com
AT&T Corporation Mr. Hector Garcia Legal Mandate Department 1000 Commerce Drive, Floor 1 Oak Brook, IL. 60523 Ph: (847) 888-6799 Fax: (630) 573-5445 Cell: (630) 639-8372 hg2929@att.com	ComEd Ms. Terri J. Bleck, Manager, Public Relocation Group - Northeast Region 1500 Franklin Blvd. Libertyville, IL 60048 Ph: (847) 816-5239 Fax: (847) 816-5348 terri.bleck@ComEd.com

16. UTILITY POINTS OF CONTACT (Damage Prevention – Contact for problems with JULIE Locates and/or Utility Emergencies)

North Shore Gas Mr. Ted Andersen Ph: (847) 263-4614 taandersen@northshoregasdelivery.com	Comcast Ms. Shari Greenwood Ph: (708) 417-8522 shari_greenwood@cable.comcast.com
AT&T Corporation Mr. Kevin Cavenaile Damage Prevention Ph: (630) 906-2166 Cell: (815) 274-3093 kc2951@att.com	ComEd Mr. Kelley Heinz, Sr. Claims Case Manager Ph: (630) 691-4759 or (630) 333-2231 **Hit Line – Call:** JULIE (800) 892-0123 and ComEd (800) 334-7661

LCDOT DETAILS

Detail No.	Title
LC0020	Trench Widths for Trench Backfill and Pavement Replacement Bituminous
LC2051	Perimeter Erosion Barrier Installation
LC4100	Typical Minor Access - Private Entrance
LC4101	Typical Major Access - Commercial Entrance
LC4110	Typical Minor Access Treatment on Resurfacing Projects
LC4111	Typical Major Access Treatment on Resurfacing Projects
LC4121	Mailbox Turnout Along Curbed Roads
LC4201	Detectable Warnings and Pedestrian Pushbutton Locations
LC4202	Concrete Washout Facilities
LC4204	Curb Flares for Sidewalks
LC6003	Drainage Structure Elevations and Offsets
LC6020	Sub-Surface Drains
LC7000	Modified Standard 701011 Two Lane, Two Way, Off-Road Operations Day Operations Only
LC7003	Urban Lane Closure Multilane Intersection
LC7004	Modified District 1 Standard Traffic Control and Protection for Sideroads Intersections and Driveways
LC7200	Direction Indicator Barricades
LC7201	Temporary Construction Information Signs
LC7203	work Zone Speed Limit Signing Diagram
LC7800	Typical Pavement Markings for County Highways
LC7801	On Street Bicycle Lane Pavement Marking and Signing Details
LC7802	Short Term Pavement Markings
LC7805	Recessed Reflective Pavement Marker
LC8600	Typical Detector Loop Layouts
LC8900	Camera Mounting Details
LC8901	Temporary Autoscope Installation

IDOT HIGHWAY STANDARDS

Standard No.	Title
000001-06	Standard Symbols Abbreviations and Patterns
424001-08	Perpendicular Curb Ramps for Sidewalks
442201-03	Class C and D Patches
602001-02	Catch Basin Type A
602011-02	Catch Basin Type C
602301-04	Inlet - Type A
602401-03	Manhole Type A
602501-02	Valve Vault Type A
604001-04	Fame and Lids Type 1
604091-03	Frame and Grate Type 24
606001-06	Concrete Curb Type B and Combination Curb and Gutter
701101-05	Off-Rd Operations, Multilane, 15' (4.5m) to 24" (600mm) From Pavement Edge
701106-02	Off-Rd Operations, Multilane, More Than 15' (4.5m) Away
701421-07	Lane Closure, Multilane, Day Operations Only, For Speeds ≥ 45 mph to 55 mph
701422-08	Lane Closure, Multilane, For Speeds ≥ 45 mph to 55 mph
701426-08	Lane Closure, Multilane, Intermittent or Moving Oper., For Speeds ≥ 45 mph
701602-07	Urban Lane Closure, Multilane, 2W with Bidirectional Left Turn Lane
701801-05	Sidewalk, Corner or Crosswalk Closure
701901-04	Traffic Control Devices
814001-03	Handholes
814006-02	Double Handholes
862001-01	Uninterruptable Power Supply (UPS)
873001-02	Traffic Signal Grounding & Bonding
876001-04	Pedestrian Push Button Post
877011-07	Steel Comb. Mast Arm Assembly and Pole 16' Through 55'
878001-10	Concrete Foundation Details
880001-01	Span Wire Mounted Signals and Flashing Beacon Installation
880006-01	Traffic Signal Mounting Details
886001-01	Detector Loop Installations

IDOT Standards shall include the version number of the standard e.g. 000001-06

Exhibit 2

SUMMARY OF QUANTITIES

PAY ITEM NO.	SPECIAL*	CONT**	SP***	IDOT CODED PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SCHEDULE NUMBER	PLAN SHEET
1	X		X	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	12.0	1	8
2	X		X	20101100	TREE TRUNK PROTECTION	EACH	26.0	2	8
3	X		X	20101200	TREE ROOT PRUNING	EACH	26.0		
4	X			20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	2.0		
5	X			20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	2.0		
6				20101700	SUPPLEMENTAL WATERING	UNIT	43.0	5	14
7			X	20200100	EARTH EXCAVATION	CU YD	3419.0	3	8
8				20800150	TRENCH BACKFILL	CU YD	63.0	4	9 - 13
9			X	28000400	PERIMETER EROSION BARRIER	FOOT	1460.0	6	15
10			X	28000510	INLET FILTERS	EACH	154.0	6	15
11			X	35101400	AGGREGATE BASE COURSE TYPE B	TON	4856.0	7	15
12				40600290	BITUMINOUS MATERIALS (TACK COAT)	LBS	34736.0	8	15
13		X	X	40600535	LEVELING BINDER (HAND METHOD), N70	TON	20.0	n/a	n/a
14		X		40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	100.0	n/a	n/a
15				40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	885.0	9	15
16				40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	733.0	11	15
17				40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	6484.0		
18				42001300	PROTECTIVE COAT	SQ YD	8775.0	12	17
19				42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	24.0	10	16
20				42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3923.0	13	17
21				42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1108.0		
22			X	42400800	DETECTABLE WARNINGS	SQ FT	151.0		
23			X	44000155	HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"	SQ YD	77192.0	14	18
24				44000300	CURB REMOVAL	FOOT	12.0	15	19 - 28
25				44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	22261.0		
26				44000600	SIDEWALK REMOVAL	SQ FT	734.0	13	17
27			X	44201773	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	476.0	16	17
28			X	44201777	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	593.0		
29			X	44201781	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	1737.0		
30			X	44201783	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	1158.0		
31				54248510	CONCRETE COLLAR	CU YD	21.0	4	9 - 13
32				550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	453.0		
33				550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	FOOT	50.0		
34				55100500	STORM SEWER REMOVAL 12"	FOOT	87.0		
35		X	X	60100905	PIPE DRAINS 4"	FOOT	50.0	n/a	n/a
36		X	X	60100915	PIPE DRAINS 6"	FOOT	50.0	n/a	n/a
37			X	60108104	PIPE UNDERDRAIN, TYPE 1, 4"	FOOT	21984.0	15	19 - 28
38				60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	51.0	4	9 - 13

SUMMARY OF QUANTITIES (cont)

PAY ITEM NO.	SPECIAL*	CONT**	SP***	IDOT CODED PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SCHEDULE NUMBER	PLAN SHEET
39				60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	32.0	4	9 - 13
40				60250200	CATCH BASINS TO BE ADJUSTED	EACH	30.0		
41				60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	5.0		
42				60255500	MANHOLES TO BE ADJUSTED	EACH	64.0		
43				60260100	INLETS TO BE ADJUSTED	EACH	21.0		
44				60404950	FRAMES AND GRATES, TYPE 24	EACH	4.0		
45				60600605	CONCRETE CURB, TYPE B	FOOT	116.0	15	19 - 28
46			X	60603900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	83.0		
47			X	60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)	FOOT	22179.0		
48				66900205	SPECIAL WASTE DISPOSAL	CU YD	982.0	3	8
49	X			66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1.0	n/a	n/a
50	X			66900530	SOIL DISPOSAL ANALYSIS	EACH	4.0		
51				67100100	MOBILIZATION	L SUM	1.0		
52	X			70300100	SHORT TERM PAVEMENT MARKING	FOOT	24396.0	17	29
53	X			70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1357.4	18	30 - 33
54	X			70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	30806.0		
55	X			70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	22330.0		
56	X			70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3968.0		
57	X			70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	46.0		
58	X			70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1474.0		
59	X			70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	514.0		
60	X			70300520	PAVEMENT MARKING TAPE TYPE III 4"	FOOT	12198.0	17	29
61	X		X	78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	3684.0	19	34
62	X		X	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	46.0		
63	X			78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	19520.0	20	34
64			X	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	448.0	25	36
65	X		X	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2.0	SIGNAL PLANS	
66	X			81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	700.0		
67	X			81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	138.0		
68	X			81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	170.0		
69	X			81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	630.0		
70	X		X	81400100	HANDHOLE	EACH	5.0		
71	X		X	81400300	DOUBLE HANDHOLE	EACH	4.0		
72	X		X	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	8.0		
73	X		X	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3.0		
74	X		X	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3012.0		
75	X		X	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1434.0		

Include columns indicating Specialty Pay Item, Contingency Quantity (not allowed on Fed Projects) and Special Provisions. Columns identifying the schedule and sheet are desired but not required.

SPECIAL* = Speciality Pay Item

CONT** = Contingency/Estimated Quantity

SP*** = Covered by a Special Provision in the Contract Specifications

Exhibit 3

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
1.	Add PM (IDOT) & REVISE SW (NICOR)	4 / 7 /16		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/22/2016

0 20 40

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING

SUMMARY OF QUANTITIES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	89	16-00089-08-RS	4	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\GeneralPlan Sheets.dgn

SUMMARY OF QUANTITIES (cont)

PAY ITEM NO.	SPECIAL*	CONT**	SP***	IDOT CODED PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SCHEDULE NUMBER	PLAN SHEET
76	X		X	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1078.0	SIGNAL PLANS	
77	X		X	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2277.0		
78	X		X	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2923.0		
79	X		X	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	625.0		
80	X		X	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1691.0		
81	X		X	87600200	PEDESTRIAN PUSH-BUTTON POST, TYPE II	EACH	1.0		
82	X		X	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	40.0		
83	X		X	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8.0		
84	X		X	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	120.0		
85	X			87900200	DRILL EXISTING HANDHOLE	EACH	6.0		
86	X		X	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14.0		
87	X		X	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2.0		
88	X		X	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6.0		
89	X		X	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6.0		
90	X		X	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	20.0		
91	X		X	88600600	DETECTOR LOOP REPLACEMENT	FOOT	1225.0	21	18
92	X			88700200	LIGHT DETECTOR	EACH	4.0	SIGNAL PLANS	
93	X			88700300	LIGHT DETECTOR AMPLIFIER	EACH	2.0		
94	X		X	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2.0		
95	X			89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1.0		
96	X			89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3.0		
97	X			89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	3.0		
98	X			89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	790.0		
99	X			89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3052.0		
100	X		X	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3.0		
101	X			89502380	REMOVE EXISTING HANDHOLE	EACH	8.0		
102	X			89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	17.0		
103		X	X	LC200051	REJECTED LOAD TRANSPORTATION	LOAD	5.0	n/a	n/a
104			X	LC200501	MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS	UNIT	114246.0	n/a	n/a
105			X	LC600200	INSTALL SURVEY MONUMENTS	EACH	3.0	22	18
106	X		X	LC780020	GROOVED THERMOPLASTIC PAVEMENT MARKINGS - LETTERS AND SYMBOLS	SQ FT	1357.4	23	35 - 36
107	X		X	LC780021	GROOVED THERMOPLASTIC PAVEMENT MARKINGS - LINE 4"	FOOT	30806.0		
108	X		X	LC780023	GROOVED THERMOPLASTIC PAVEMENT MARKINGS - LINE 6"	FOOT	3968.0		
109	X		X	LC780025	GROOVED THERMOPLASTIC PAVEMENT MARKINGS - LINE 12"	FOOT	1474.0		
110	X		X	LC780026	GROOVED THERMOPLASTIC PAVEMENT MARKINGS - LINE 24"	FOOT	514.0		
111	X		X	LC800616	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1/C NO. 10	FOOT	1714.0	SIGNAL PLANS	
112	X		X	X0323388	TRAFFIC COUNTER	EACH	1.0		
113	X		X	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	777.0		

SUMMARY OF QUANTITIES (cont)

PAY ITEM NO.	SPECIAL*	CONT**	SP***	IDOT CODED PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SCHEDULE NUMBER	PLAN SHEET
114			X	X0324380	REMOVE AND REPLACE LID	EACH	1.0	4	9 - 13
115	X		X	X0325479	RELOCATE EXISTING ITS EQUIPMENT TYPE A	EACH	2.0	SIGNAL PLANS	
116	X		X	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	8.0		
117	X		X	X1400007	FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	3028.0		
118	X		X	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	226.0		
119			X	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	16.0	13	17
120			X	X6050500	REMOVE FRAMES AND GRATES, SPECIAL	EACH	4.0	4	9 - 13
121			X	X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	10.0	n/a	n/a
122			X	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	n/a	n/a
123				X7010410	SPEED DISPLAY TRAILER	CAL MO	14.0	n/a	n/a
124	X		X	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	460.0	25	36
125	X		X	X8100105	CONDUIT SPLICE	EACH	4.0	SIGNAL PLANS	
126	X		X	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2.0		
127	X		X	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2.0		
128	X		X	X8730571	ELECTRICAL CABLE IN CONDUIT, COAXIAL	FOOT	211.0		
129	X		X	X8730800	ELECTRICAL CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	211.0		
130	X		X	X8770127	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1.0		
131	X		X	X8770134	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. (SPECIAL)	EACH	6.0		
132	X		X	X8772860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH	1.0		
133			X	XX000856	MAILBOX REMOVAL AND RELOCATION	EACH	4.0	10	16
134			X	XX003168	WORK ZONE PAVEMENT MARKING REMOVAL, SPECIAL	FOOT	12198.0	17	29
135	X		X	XX005723	VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	2.0	SIGNAL PLANS	
136	X		X	XX005931	TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	9.0		
137	X		X	XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1.0		
138	X		X	XX006343	SEEDING (COMPLETE)	SQ YD	1608.0	5	14
139	X		X	XX006344	SODDING (COMPLETE)	SQ YD	3198.0		
140	X		X	XX006655	LAYER II (DATALINK) SWITCH	EACH	1.0	SIGNAL PLANS	
141	X	X	X	XX006658	FLOCCULATION LOGS	EACH	2.0	n/a	n/a
142	X	X	X	XX006659	FLOCCULATION POWDER	POUND	5.0	n/a	n/a
143			X	XX006729	PERIMETER EROSION BARRIER, ROLLED EXCELSIOR	FOOT	5292.0	6	15
144			X	XX006898	STAMPED COLORED PORTLAND CEMENT CONCRETE	SQ FT	65.0	13	17
145	X		X	XX007017	TERMINATE FIBER IN CABINET	EACH	18.0	SIGNAL PLANS	
146	X		X	XX007952	TERMINAL SERVER	EACH	1.0		
147	X		X	XX008251	SPLICE FIBER IN CABINET	EACH	6.0		
148			X	XX206400	MAILBOX POST	EACH	13.0	10	16
149			X	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	86.0	4	9 - 13
150			X	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	43486.0	24	18
151	X		X	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2.0	SIGNAL PLANS	

SPECIAL* = Speciality Pay Item

CONT** = Contingency/Estimated Quantity

SP*** = Covered by a Special Provision in the Contract Specifications

Exhibit 3

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
1.	Add PM (IDOT) & REVISE SW (NICOR)	4 / 7 /16		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/22/2016

0 20 40

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING

SUMMARY OF QUANTITIES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	89	16-00089-08-RS	5	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\GeneralPlan Sheets.dgn

PROPOSED LEGEND

1. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
2. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7-1/2"
3. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
4. PROPOSED POROUS GRANULAR EMBANKMENT, SPECIAL (A)
5. PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
6. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3"
7. PROPOSED AGGREGATE BASE COURSE, TYPE B, 6"
8. PROPOSED TOPSOIL FURNISH AND PLACE, 4"
9. PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
10. PROPOSED PIPE UNDERDRAINS, 4" (MODIFIED)
11. PROPOSED LEVELING BINDER (MACHINE METHOD), N50 (3/4" MIN.)
12. PROPOSED AGGREGATE SHOULDERS, TYPE B 6"

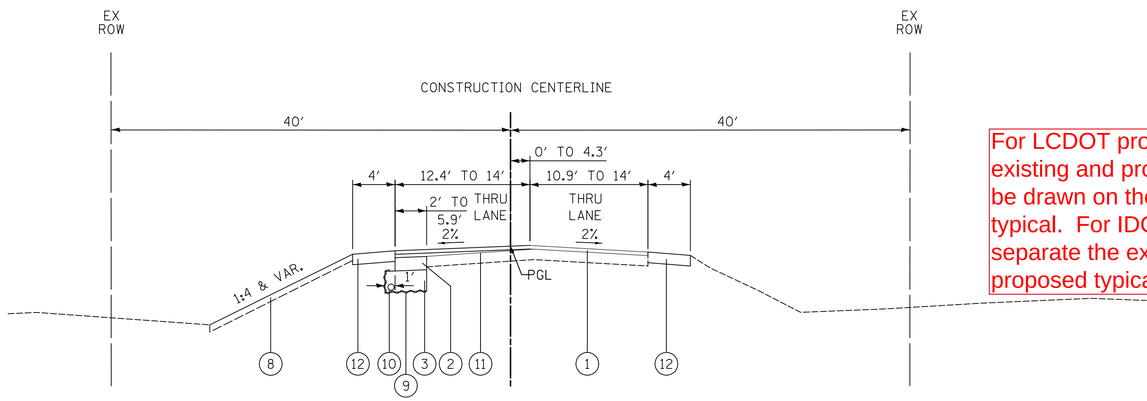
SOILS NOTE:

POROUS GRANULAR EMBANKMENT, SPECIAL (PGES) HAS BEEN PROVIDED AT THE LOCATIONS INDICATED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

THE LIMITS OF UNSTABLE SOILS ARE AT THE APPROXIMATE LOCATIONS AS FOLLOWS:

STA TO STA	ESTIMATED UNDERCUT BELOW DESIGN SUBGRADE
8+67 TO 9+82	6" FOR FULL WIDTH
9+82 TO 13+55	12" FOR FULL WIDTH
13+55 TO 16+40	6" FOR FULL WIDTH
22+25 TO 23+11	6" FOR FULL WIDTH

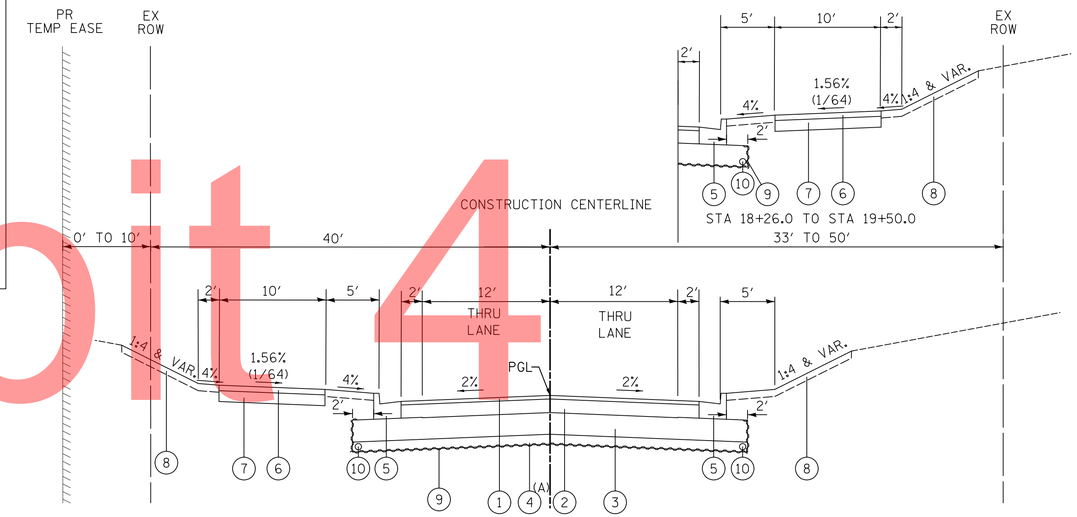
Exhibit 4



PROPOSED TYPICAL SECTION PETITE LAKE ROAD

STA 6+06.0 TO STA 8+67.0

For LCDOT projects existing and proposed can be drawn on the same typical. For IDOT projects separate the existing & proposed typical section.

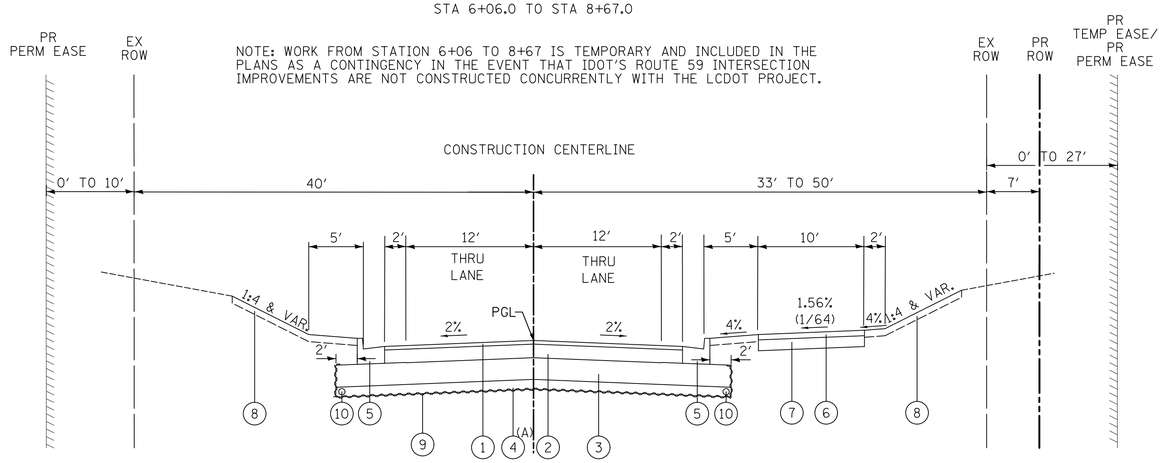


PROPOSED TYPICAL SECTION PETITE LAKE ROAD

STA 18+26.0 TO STA 23+11.0

(A) SEE SOIL NOTE AND CROSS SECTION SHEETS FOR LOCATIONS AND DEPTH OF UNDERCUTTING

Include Road name and Station Range for each typical section



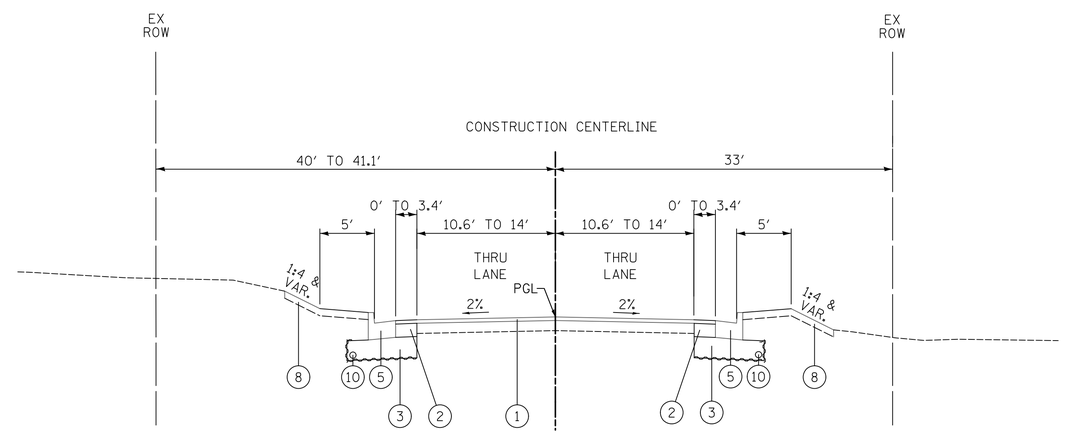
PROPOSED TYPICAL SECTION PETITE LAKE ROAD

STA 8+67.0 TO STA 18+26.0

NOTE: WORK FROM STATION 6+06 TO 8+67 IS TEMPORARY AND INCLUDED IN THE PLANS AS A CONTINGENCY IN THE EVENT THAT IDOT'S ROUTE 59 INTERSECTION IMPROVEMENTS ARE NOT CONSTRUCTED CONCURRENTLY WITH THE LCDOT PROJECT.

(A) SEE SOIL NOTE AND CROSS SECTION SHEETS FOR LOCATIONS AND DEPTH OF UNDERCUTTING

Show and dimension ROW and easements



PROPOSED TYPICAL SECTION PETITE LAKE ROAD

STA 23+11.0 TO STA 26+06.0

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	DESIGNED BY: PK
		/ /		CHECKED BY: RTM
		/ /		DATE: 1/27/2015

CIVILTECH
450 E Devon Ave, Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com

LakeCounty Division of Transportation

PETITE LAKE ROAD RECONSTRUCTION

PROPOSED TYPICAL SECTIONS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH51		10-00181-05-RS	7	105

PLOT SCALE = 50.0000 ' / in.
PLOT DATE = 1/21/2015

FILE NAME = ...\2702_Typ.Sec.pr.dgn
USER NAME = pk

1 SCHEDULE OF TREE & SHRUB REMOVAL

STATION	OFFSET (ft)	LEFT OR RIGHT	DESCRIPTION: TYPE	DESCRIPTION: SIZE (in)	20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER) (units)	K0026830 SHRUB REMOVAL (each)
118+85.54	39.2	LEFT	SHRUB	36.0		1.0
118+87.90	39.1	LEFT	SHRUB	36.0		1.0
118+90.62	39.0	LEFT	SHRUB	36.0		1.0
118+98.64	39.1	LEFT	SHRUB	36.0		1.0
119+01.36	39.3	LEFT	SHRUB	36.0		1.0
119+03.99	39.1	LEFT	SHRUB	36.0		1.0
119+32.86	40.9	LEFT	SHRUB	48.0		1.0
119+34.93	37.8	LEFT	SHRUB	48.0		1.0
119+37.47	40.3	LEFT	SHRUB	48.0		1.0
119+60.08	38.2	LEFT	SHRUB	36.0		1.0
119+63.01	38.2	LEFT	SHRUB	36.0		1.0
119+69.51	38.2	LEFT	SHRUB	36.0		1.0
119+72.07	38.1	LEFT	SHRUB	36.0		1.0
119+78.53	37.7	LEFT	SHRUB	36.0		1.0
119+81.36	37.9	LEFT	SHRUB	36.0		1.0
119+84.09	38.3	LEFT	SHRUB	36.0		1.0
129+34.93	40.0	RIGHT	EVERGREEN	10.0	10.0	
TOTAL TREE, SHRUB & STUMP REMOVAL					**10.0**	**16.0**

NOTE: SHRUBS FOR REMOVAL ARE DECIDIOUS

2 SCHEDULE OF TREE TRUNK PROTECTION; TREE ROOT PRUNING & TREE PRUNING

STATION	OFFSET (ft)	LEFT OR RIGHT	DESCRIPTION TYPE	DESCRIPTION SIZE (in)	20101100 TREE TRUNK PROTECTION (each)	20101100 TREE ROOT PRUNNING (each)	20101300 TREE PRUNNING (1 TO 10 INCH DIAMETER) (each)	20101350 TREE PRUNNING (OVER 10 INCH DIAMETER) (each)
TREE TRUNK PROTECTION & ROOT PRUNING								
119+98.70	47.5	LEFT	OTHER	9.0	1.0	1.0		
123+15.04	33.2	RIGHT	MAPLE	18.0		1.0		1.0
123+40.61	33.9	RIGHT	MAPLE	21.0		1.0		1.0
125+23.06	27.7	RIGHT	MAPLE	10.0	1.0	1.0	1.0	
125+64.38	36.8	RIGHT	CEDAR	11.0	1.0			
125+69.65	36.6	RIGHT	CEDAR	11.0	1.0			
125+77.85	36.4	RIGHT	BOX ELDER	15.0	1.0			
126+53.33	39.5	RIGHT	PINE	5.0	1.0	1.0		
126+62.69	42.3	RIGHT	PINE	4.5		1.0		
126+72.98	40.4	RIGHT	PINE	7.0	1.0	1.0		
128+71.09	39.6	RIGHT	EVERGREEN	10.0	1.0	1.0		
129+15.43	35.0	RIGHT	EVERGREEN	8.0	1.0	1.0		
129+60.03	39.6	RIGHT	EVERGREEN	12.0	1.0	1.0		
129+91.80	38.7	RIGHT	OTHER	12.0	1.0	1.0		
TOTAL TREE TRUNK PROTECTION & ROOT PRUNING					**11.0**	**11.0**	**1.0**	**2.0**

NOTES: Tree root pruning for trees located outside the right of way will be done one foot inside the right of way line.

Trees scheduled for trunk protection & root pruning are identified on the cross sections with the following in the description label:
TTP = Tree Trunk Protection
TRP = Tree Root Pruning
TP = Tree Pruning

4 SCHEDULE OF EXCAVATING AND GRADING EXISTING SHOULDER

FROM	TO	LEFT OR RIGHT	LENGTH (FEET)	QUANTITY (UNIT)
80+31.45	93+70.41	LT	1339.0	13.4
94+67.81	105+63.75	LT	1095.9	11.0
112+23.94	112+88.08	LT	64.1	0.6
113+12.40	113+93.62	LT	81.2	0.8
80+45.25	92+09.30	RT	1164.1	11.6
99+16.50	102+27.88	RT	311.4	3.1
105+37.54	106+67.54	RT	130.0	1.3
110+59.64	111+17.06	RT	57.4	0.6
111+90.34	113+45.06	RT	154.7	1.5
113+69.20	118+11.53	RT	442.3	4.4
PAY CODE 20200600			**SUBTOTAL**	**48.4**
			5% CONTINGENCY	2.4
			TOTAL	**50.8**

6 SCHEDULE OF POROUS GRANULAR BACKFILL & GEOTECHNICAL FABRIC

STATION	LENGTH (ft)	PGB CROSS SECTION AREA (sq ft)	PGB VOLUME (cu ft)	PGB VOLUME (cu yd)
WALL BACKFILL				
131+26.46		2.9		
131+27.94	1.48	2.9	4.3	0.2
131+30.00	2.06	4.3	7.4	0.3
131+35.00	5.00	4.9	23.0	0.9
131+40.00	5.00	4.9	24.5	0.9
131+45.00	5.00	3.9	22.0	0.8
131+50.00	5.00	2.9	17.0	0.6
131+50.25	0.25	2.9	0.7	0.0
TOTAL				**3.7**

5 SCHEDULE OF DRAINAGE ITEMS

FROM STATION	TO STATION	LEFT OR RIGHT	OFFSET (ft)	20800150 TRENCH BACKFILL (cu yd)	50105220 PIPE CULVERT REMOVAL (ft)	542C0220 PIPE CULVERTS, CLASS C, TYPE 1 15" (ft)	54215550 METAL END SECTIONS 15" (each)	550B0050 STORM SEWERS, CLASS B, TYPE 1 12" (ft)	60236200 INLETS, TYPE A, TYPE 8 GRATE (each)	60255500 MANHOLES TO BE ADJUSTED (each)	X0324380 REMOVE AND REPLACE LID (each)	X6013600 PIPE UNDERDRAINS 4" (MODIFIED) (ft)
126+50.00		RIGHT	31.7						1.0			
126+50.00	126+84.71	RIGHT		0.5				34.0				
127+61.22		RIGHT	19.6							1.0	1.0	
128+19.92	128+39.96	RIGHT	36.3 - 37		20.1							
128+20.00		RIGHT					1.0					
128+20.00	128+43.00	RIGHT	35.75	1.5		23.0						
128+43.00		RIGHT					1.0					
131+26.80	131+32.40	RIGHT										5.7
131+32.40	131+32.40	RIGHT										11.1
131+32.40	131+50.25	RIGHT										19.7
DRAINAGE ITEM TOTALS				**2.0**	**20.1**	**23.0**	**2.0**	**34.0**	**1.0**	**1.0**	**1.0**	**36.5**

Quantity Schedules are required for all pay items except lump sum (Traffic Control & Protection, Maintenance of Temporary Erosion Control Systems etc..); contingency items (Floc Logs, Floc Powder, Pipe Drains etc..); Traffic Signal items (shown on the Signal/Interconnect plans); and structural items, typically retaining walls (shown on the structural plans Bill of Materials). Additionally the LCDOT pay item for Maintenance of Temporary Erosion Control Systems does not require a schedule. The schedules shall include enough detail to show how the quantity is arrived at (e.g. show length and width to get area) and location information to show where the pay item is used. DO NOT just tally quantities by plan sheet without location information.

Exhibit 5

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING
QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	11	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Earthwork Schedule by cross section end areas

Exhibit 5

3 SCHEDULE OF EARTHWORK

STATION	LENGTH (ft)	CUT CROSS SECTION AREA (sq ft)	CUT VOLUME (cu ft)	FILL CROSS SECTION AREA (sq ft)	FILL VOLUME (cu ft)
Adjacent to McDonalds Property					
118+75.00		8.9		0.0	
118+80.00	5.00	10.8	49.3	0.0	0.0
118+84.15	4.15	8.1	39.2	0.0	0.0
119+00.00	15.85	7.4	122.8	0.0	0.0
119+14.10	14.10	7.6	105.8	0.0	0.0
119+25.00	10.90	7.3	81.2	0.0	0.0
119+50.00	25.00	7.8	188.8	0.0	0.0
119+56.55	6.55	8.0	51.7	0.0	0.0
119+75.00	18.45	9.3	159.6	0.0	0.0
119+86.65	11.65	10.2	113.6	0.0	0.0
120+00.00	13.35	10.6	138.8	0.0	0.0
120+05.20	5.20	28.2	100.9	0.0	0.0
120+25.00	19.80	4.1	319.8	0.0	0.0
120+28.84	3.84	9.9	26.9	0.0	0.0
Subtotal McDonalds Property			**1498.3**		**0.0**
North of IL Route 12 to Terrace Lane					
123+25.00		7.6		0.0	
123+50.00	25.0	12.0	245.0	0.0	0.0
123+55.00	5.0	11.1	57.8	0.0	0.0
123+60.00	5.0	9.1	50.5	0.0	0.0
123+65.00	5.0	10.1	48.0	0.0	0.0
123+70.00	5.0	9.4	48.8	0.0	0.0
123+75.00	5.0	6.9	40.8	0.0	0.0
123+80.00	5.0	3.2	25.3	0.0	0.0
Subtotal IL Route 12 - Terrace Ln			**516.0**		**0.0**

STATION	LENGTH (ft)	CUT CROSS SECTION AREA (sq ft)	CUT VOLUME (cu ft)	FILL CROSS SECTION AREA (sq ft)	FILL VOLUME (cu ft)	UNSUITABLE CROSS SECTION AREA (sq ft)	UNSUITABLE VOLUME (cu ft)
Terrace Lane to Pine Avenue							
124+24.20		5.1		0.0		0.0	
124+25.00	0.8	5.1	4.1	0.0	0.0	0.0	0.0
124+30.00	5.0	6.9	30.0	0.0	0.0	0.0	0.0
124+35.00	5.0	6.7	34.0	0.0	0.0	0.0	0.0
124+40.00	5.0	7.3	35.0	0.0	0.0	0.0	0.0
124+45.00	5.0	5.7	32.5	0.0	0.0	0.0	0.0
124+50.00	5.0	6.2	29.8	0.0	0.0	0.0	0.0
124+75.00	25.0	6.3	156.3	0.0	0.0	0.0	0.0
125+00.00	25.0	5.2	143.8	0.0	0.0	0.0	0.0
125+25.00	25.0	3.9	113.8	0.3	3.8	0.0	0.0
125+50.00	25.0	4.3	102.5	0.8	13.8	1.3	16.3
125+75.00	25.0	3.7	100.0	2.0	35.0	1.3	32.5
126+00.00	25.0	4.3	100.0	1.4	42.5	1.3	32.5
126+25.00	25.0	4.5	110.0	0.5	23.8	1.3	32.5
126+50.00	25.0	11.6	201.3	0.1	7.5	1.3	32.5
126+55.00	5.0	10.0	54.0	0.2	0.8	1.3	6.5
126+60.00	5.0	8.1	45.3	0.3	1.3	1.3	6.5
126+65.00	5.0	10.7	47.0	0.9	3.0	1.3	6.5
126+70.00	5.0	9.6	50.8	0.6	3.8	1.3	6.5
126+75.00	5.0	8.7	45.8	0.1	1.8	1.3	6.5
126+80.00	5.0	7.6	40.8	0.1	0.5	1.3	6.5
126+85.00	5.0	8.9	41.3	0.0	0.3	1.3	6.5
126+90.00	5.0	8.7	44.0	0.0	0.0	1.3	6.5
126+95.00	5.0	15.0	59.3	0.0	0.0	6.3	19.0
127+00.00	5.0	12.5	68.8	0.0	0.0	1.5	19.5
127+05.00	5.0	8.9	53.5	0.3	0.8	1.9	8.5
127+08.55	3.5	8.0	30.0	0.3	1.1	0.3	3.9
Subtotal Terrace Ln - Pine Ave			**1773.1**		**139.3**		**249.2**

STATION	LENGTH (ft)	CUT CROSS SECTION AREA (sq ft)	CUT VOLUME (cu ft)	FILL CROSS SECTION AREA (sq ft)	FILL VOLUME (cu ft)	UNSUITABLE CROSS SECTION AREA (sq ft)	UNSUITABLE VOLUME (cu ft)
Pine Avenue to Maple Avenue							
127+40.00		0.0		0.0		0.0	
127+45.00	5.0	7.0	17.5	0.0	0.0	0.0	0.0
127+50.00	5.0	5.9	32.3	0.4	1.0	0.0	0.0
127+55.00	5.0	2.6	21.3	1.6	5.0	0.0	0.0
127+60.00	5.0	3.7	15.8	2.3	9.8	0.0	0.0
127+65.00	5.0	2.1	14.5	6.0	20.8	0.0	0.0
127+70.00	5.0	3.1	13.0	6.0	30.0	0.0	0.0
127+75.00	5.0	3.6	16.8	6.1	30.3	0.0	0.0
127+80.00	5.0	3.6	18.0	4.7	27.0	0.0	0.0
127+85.00	5.0	3.6	18.0	4.0	21.8	0.0	0.0
127+90.00	5.0	3.5	17.8	5.4	23.5	0.0	0.0
127+95.00	5.0	4.0	18.8	5.2	26.5	0.0	0.0
128+00.00	5.0	3.9	19.8	5.6	27.0	0.0	0.0
128+05.00	5.0	4.0	19.8	6.9	31.3	0.0	0.0
128+10.00	5.0	5.2	23.0	7.7	36.5	0.0	0.0
128+15.00	5.0	4.6	24.5	7.4	37.8	0.0	0.0
128+20.00	5.0	7.1	29.3	3.1	26.3	1.2	3.0
128+25.00	5.0	13.2	50.8	0.0	7.8	6.4	19.0
128+31.50	6.5	13.6	87.1	0.0	0.0	6.9	43.2
128+38.40	6.9	13.7	94.2	0.0	0.0	7.0	48.0
128+50.00	11.6	7.2	121.2	4.2	24.4	0.8	45.2
128+75.00	25.0	2.7	123.8	2.7	86.3	1.3	26.3
129+00.00	25.0	2.7	67.5	1.9	57.5	1.3	32.5
129+25.00	25.0	3.3	75.0	1.9	47.5	1.4	33.8
129+50.00	25.0	5.0	103.8	1.5	42.5	1.4	35.0
129+75.00	25.0	5.9	136.3	0.0	18.8	0.0	17.5
130+00.00	25.0	7.3	165.0	0.0	0.0	0.0	0.0
130+05.00	5.0	7.5	37.0	0.0	0.0	0.0	0.0
130+10.00	5.0	7.3	37.0	0.0	0.0	0.0	0.0
130+15.00	5.0	7.1	36.0	0.0	0.0	0.0	0.0
130+20.00	5.0	9.6	41.8	0.0	0.0	0.0	0.0
130+25.00	5.0	7.0	41.5	0.0	0.0	0.0	0.0
130+26.50	1.5	7.0	10.5	0.0	0.0	0.0	0.0
Subtotal Pine Ave - Maple Ave			**1548.0**		**638.9**		**303.4**

STATION	LENGTH (ft)	CUT CROSS SECTION AREA (sq ft)	CUT VOLUME (cu ft)	FILL CROSS SECTION AREA (sq ft)	FILL VOLUME (cu ft)
Maple Avenue to IL Route 22					
130+67.60		6.9		0.0	
130+70.00	2.4	6.9	16.6	0.0	0.0
130+75.00	5.0	15.3	55.5	0.0	0.0
130+80.00	5.0	23.5	97.0	0.0	0.0
130+85.00	5.0	25.8	123.3	0.0	0.0
130+90.00	5.0	26.3	130.3	0.0	0.0
130+95.00	5.0	16.7	107.5	0.0	0.0
131+00.00	5.0	11.8	71.3	0.0	0.0
131+05.00	5.0	9.7	53.8	0.0	0.0
131+10.00	5.0	9.1	47.0	0.0	0.0
131+15.00	5.0	13.3	56.0	0.0	0.0
131+20.00	5.0	14.3	69.0	0.0	0.0
131+25.00	5.0	14.4	71.8	0.0	0.0
131+30.00	5.0	24.0	96.0	0.0	0.0
131+35.00	5.0	28.5	131.3	0.0	0.0
131+40.00	5.0	33.7	155.5	0.0	0.0
131+45.00	5.0	19.9	134.0	0.0	0.0
131+50.00	5.0	13.4	83.3	0.0	0.0
Subtotal Maple Ave - IL Route 22			**1498.8**		**0.0**
Subtotal McDonalds Property			**1498.3**		**0.0**
Subtotal IL Route 12 - Terrace Ln			**516.0**		**0.0**
Subtotal Terrace Ln - Pine Ave			**1773.1**		**139.3**
Subtotal Pine Ave - Maple Ave			**1548.0**		**638.9**
SUBTOTALS EARTHWORK			**6834.2**		**778.2**

BORROW EXCAVATION (+) OR EXCESS MATERIAL (-)
(ASSUMED 20% SHRINKAGE)

FILL REQUIRED	**28.8**	**x 1.2**	**=**	**34.6 cu yd**
CUT - UNSUIT	**253.1**	**-11.2**		**241.9 cu yd**
BORROW/EXCESS	**34.6**	**-241.9**		**-207.3 cu yd**
CONTINGENCY +10%	**253.1**	**x 1.1**	**=**	**278.4 cu yd**

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING
QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	12	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 4

7A — SCHEDULE OF FURNISH AND PLACE TOPSOIL 4"

LEFT (WEST) SIDE OF PROPOSED SIDEWALK

STATION	LENGTH (ft)	CROSS SECTION WIDTH (ft)	CROSS SECTION AREA (sq ft)	TOPSOIL QUANTITY (sq yd)
McDonalds Easement				
118+40.65		2.0		
118+54.92	14.3	2.0	28.5	3.2
119+15.89		1.2		
119+25.00	9.1	1.2	10.9	1.2
119+50.00	25.0	1.5	33.6	3.7
119+54.61	4.6	1.5	6.9	0.8
119+88.54		4.0	0.0	0.0
120+00.00	11.5	4.0	45.8	5.1
120+05.20	5.2	5.1	23.8	2.6
120+25.00	19.8	3.0	80.1	8.9
120+27.96	3.0	4.3	10.7	1.2
TOPSOIL AREA - McDonalds Easement				**26.7**
North of IL Route 12 to Terrace Lane				
123+25.00		9.3		
123+50.00	25.0	8.8	225.9	25.1
123+55.00	5.0	8.1	42.1	4.7
123+60.00	5.0	6.8	37.1	4.1
123+65.00	5.0	4.8	28.8	3.2
123+70.00	5.0	2.0	16.9	1.9
123+71.71	1.7	0.0	1.7	0.2
TOPSOIL AREA - IL Route 12 to Terrace Lane				**39.2**
Terrace Lane to Pine Avenue				
124+29.62		0.0		
124+30.00	0.4	0.3	0.1	0.0
124+35.00	5.0	3.4	9.3	1.0
124+40.00	5.0	5.9	23.2	2.6
124+45.00	5.0	2.0	19.6	2.2
124+50.00	5.0	2.0	10.0	1.1
124+75.00	25.0	2.0	50.0	5.6
125+00.00	25.0	3.4	67.0	7.4
125+25.00	25.0	2.9	78.8	8.8
125+50.00	25.0	2.9	73.3	8.1
125+75.00	25.0	2.9	72.5	8.1
126+00.00	25.0	2.8	71.5	7.9
126+25.00	25.0	2.8	70.9	7.9
126+50.00	25.0	5.7	106.1	11.8
126+55.00	5.0	7.4	32.7	3.6
126+60.00	5.0	9.6	42.6	4.7
126+65.00	5.0	12.2	54.6	6.1
126+70.00	5.0	14.3	66.2	7.4
126+75.00	5.0	15.8	75.1	8.3
126+80.00	5.0	16.3	80.2	8.9
126+85.00	5.0	15.8	80.3	8.9
126+90.00	5.0	14.1	74.7	8.3
126+95.00	5.0	11.4	63.7	7.1
127+00.00	5.0	7.8	48.0	5.3
127+05.00	5.0	2.0	24.6	2.7
127+06.25	1.3	0.0	1.3	0.1
TOPSOIL AREA - Terrace Lane to Pine Ave				**144.0**

STATION	LENGTH (ft)	CROSS SECTION WIDTH (ft)	CROSS SECTION AREA (sq ft)	TOPSOIL QUANTITY (sq yd)
Pine Avenue to Maple Avenue				
127+47.12		2.6		
127+50.00	2.9	5.6	11.8	1.3
127+55.00	5.0	9.1	36.8	4.1
127+60.00	5.0	10.8	49.8	5.5
127+65.00	5.0	9.6	51.1	5.7
127+70.00	5.0	8.6	45.7	5.1
127+75.00	5.0	7.2	39.6	4.4
127+80.00	5.0	6.2	33.4	3.7
127+85.00	5.0	5.8	30.0	3.3
127+90.00	5.0	5.8	29.1	3.2
127+95.00	5.0	6.0	29.5	3.3
128+00.00	5.0	6.8	32.0	3.6
128+05.00	5.0	7.7	36.4	4.0
128+10.00	5.0	7.3	37.5	4.2
128+15.00	5.0	6.6	34.7	3.9
128+20.00	5.0	5.9	31.3	3.5
128+23.60	3.6	++	14.2	1.6
128+40.21		++		
128+50.00	9.8	4.0	36.4	4.0
128+75.00	25.0	5.0	112.3	12.5
129+00.00	25.0	5.0	125.0	13.9
129+25.00	25.0	5.1	126.0	14.0
129+50.00	25.0	5.1	126.4	14.0
129+75.00	25.0	8.1	164.1	18.2
130+00.00	25.0	10.4	231.5	25.7
130+05.00	5.0	9.3	49.4	5.5
130+10.00	5.0	7.7	42.7	4.7
130+15.00	5.0	5.6	33.4	3.7
130+20.00	5.0	2.6	20.5	2.3
130+22.86	2.9	0.0	3.7	0.4
TOPSOIL AREA - Pine Ave to Maple Ave				**179.3**
Maple Avenue to IL Route 22				
130+74.24		0.0		
130+75.00	0.8	1.8	0.7	0.1
130+80.00	5.0	4.7	16.2	1.8
130+85.00	5.0	7.3	29.8	3.3
130+90.00	5.0	10.0	43.2	4.8
130+95.00	5.0	4.6	36.6	4.1
131+00.00	5.0	2.2	16.9	1.9
131+05.00	5.0	4.2	15.9	1.8
131+10.00	5.0	3.6	19.6	2.2
131+15.00	5.0	16.2	49.5	5.5
131+20.00	5.0	16.0	80.4	8.9
131+25.00	5.0	14.5	76.2	8.5
131+30.00	5.0	12.5	67.6	7.5
131+35.00	5.0	10.3	57.1	6.3
131+40.00	5.0	8.2	46.4	5.2
131+45.00	5.0	5.8	35.1	3.9
131+48.44	3.4	0.0	10.0	1.1
TOPSOIL AREA - Maple Ave to IL Route 22				**66.8**
SUBTOTAL TOPSOIL AREAS ALONG THE WEST SIDE OF THE PROPOSED SIDEWALK				**456.0**

AREAS FROM RESURFACING SECTIONS

ACCESS QUANTITIES		
MINOR ACCESS AT 10 SQ YD PER ENTRANCE (LC4110)	2 EACH	20.0
MAJOR ACCESS AT 15 SQ YD PER ENTRANCE (LC4111)	4 EACH	60.0

OUTLET FOR CONCRETE CURB AND GUTTER TYPE B-6.24				
105+29.94		2.0		
105+76.50	46.6	2.0	93.1	10.3
SUBTOTAL RESURFACING AREAS				**90.3**

RIGHT (EAST) SIDE OF PROPOSED SIDEWALK

STATION	LENGTH (ft)	CROSS SECTION WIDTH (ft)	CROSS SECTION AREA (sq ft)	TOPSOIL QUANTITY (sq yd)
McDonalds Easement				
118+39.32		2.0		
118+53.49	14.2	2.0	28.3	3.1
118+95.65		2.0		
119+00.00	4.4	2.3	9.4	1.0
119+14.10	14.1	3.3	39.5	4.4
119+25.00	10.9	3.9	39.3	4.4
119+50.00	25.0	5.4	116.1	12.9
119+56.55	6.5	5.8	36.4	4.0
119+75.00	18.5	7.0	118.1	13.1
119+86.65	11.6	7.7	85.7	9.5
120+00.00	13.4	6.7	95.9	10.7
120+05.20	5.2	6.2	33.4	3.7
120+25.00	19.8	3.8	98.7	11.0
120+29.73	4.7	4.3	19.3	2.1
TOPSOIL AREA - McDonalds Easement				**80.0**
North of IL Route 12 to Terrace Lane				
123+25.00		2.0		
123+50.00	25.0	2.9	61.5	6.8
123+55.00	5.0	3.7	16.5	1.8
123+60.00	5.0	2.0	14.2	1.6
123+65.00	5.0	4.0	15.0	1.7
123+70.00	5.0	4.0	20.0	2.2
123+75.00	5.0	4.0	20.0	2.2
123+80.00	5.0	7.1	27.6	3.1
123+81.82	1.8	2.0	8.2	0.9
TOPSOIL AREA - IL Route 12 to Terrace Lane				**19.4**
Terrace Lane to Pine Avenue				
124+18.80		++		
124+25.00	6.2	8.7	33.1	3.7
124+30.00	5.0	2.8	28.8	3.2
124+35.00	5.0	2.3	12.8	1.4
124+40.00	5.0	2.4	11.7	1.3
124+45.00	5.0	2.4	12.0	1.3
124+50.00	5.0	3.7	15.2	1.7
124+75.00	25.0	2.0	71.3	7.9
125+00.00	25.0	2.7	58.8	6.5
125+25.00	25.0	3.8	81.0	9.0
125+50.00	25.0	6.5	128.5	14.3
125+75.00	25.0	8.4	185.5	20.6
126+00.00	25.0	8.1	205.9	22.9
126+25.00	25.0	5.2	166.6	18.5
126+50.00	25.0	10.8	200.3	22.3
126+55.00	5.0	9.7	51.3	5.7
126+60.00	5.0	8.7	45.9	5.1
126+65.00	5.0	7.2	39.6	4.4
126+70.00	5.0	5.2	31.0	3.4
126+75.00	5.0	3.8	22.6	2.5
126+80.00	5.0	2.8	16.4	1.8
126+85.00	5.0	2.2	12.3	1.4
126+90.00	5.0	2.0	10.4	1.2
126+94.80	4.8	++	13.2	1.5
126+95.00	0.2	NO TOPSOIL - SIDEWALK		
126+99.80	4.8	11.9		0.0
127+00.00	0.2	12.9	2.5	0.3
127+01.80	1.8	10.1	20.7	2.3
127+10.80	9.0	3.9	63.0	7.0
TOPSOIL AREA - Terrace Lane to Pine Ave				**171.1**

STATION	LENGTH (ft)	CROSS SECTION WIDTH (ft)	CROSS SECTION AREA (sq ft)	TOPSOIL QUANTITY (sq yd)
Pine Avenue to Maple Avenue				
127+41.02		++		
127+45.00	4.0	3.2	11.2	1.2
127+50.00	5.0	6.3	11.2	1.2
127+55.00	5.0	4.2	11.2	1.2
127+60.00	5.0	6.5	11.2	1.2
127+65.00	5.0	7.9	11.2	1.2
127+70.00	5.0	9.4	43.2	4.8
127+75.00	5.0	10.7	50.2	5.6
127+80.00	5.0	10.9	54.0	6.0
127+85.00	5.0	11.0	54.7	6.1
127+90.00	5.0	11.0	54.8	6.1
127+95.00	5.0	11.9	57.1	6.3
128+00.00	5.0	10.6	56.1	6.2
128+05.00	5.0	11.0	53.8	6.0
128+10.00	5.0	11.7	56.7	6.3
128+15.00	5.0	11.9	59.0	6.6
128+20.00	5.0	11.8	59.1	6.6
128+23.85	3.9	12.2	46.1	5.1
128+39.96		12.2		
128+50.00	10.0	12.2	122.5	13.6
128+75.00	25.0	7.9	250.6	27.8
129+00.00	25.0	4.1	148.9	16.5
129+25.00	25.0	3.8	98.1	10.9
129+50.00	25.0	3.3	88.9	9.9
129+75.00	25.0	2.0	66.5	7.4
130+00.00	25.0	4.7	83.1	9.2
130+05.00	5.0	2.9	18.9	2.1
130+10.00	5.0	2.0	12.3	1.4
130+15.00	5.0	2.0	10.0	1.1
130+20.00	5.0	4.7	16.8	1.9
130+25.00	5.0	5.9	3.8	0.4
130+29.21	4.2	++	17.0	1.9
TOPSOIL AREA - Pine Ave to Maple Ave				**177.8**
Maple Avenue to IL Route 22				
130+65.62		0.0		
130+70.00	4.4	4.2	9.2	1.0
130+75.00	5.0	5.2	23.5	2.6
130+80.00	5.0	7.8	32.6	3.6
130+85.00	5.0	6.9	36.8	4.1
130+90.00	5.0	7.8	36.7	4.1
130+95.00	5.0	6.5	35.7	4.0
131+00.00	5.0	4.9	28.6	3.2
131+05.00	5.0	3.7	21.6	2.4
131+10.00	5.0	2.2	14.8	1.6
131+15.00	5.0	2.4	11.6	1.3
131+20.00	5.0	2.6	12.5	1.4
131+25.00	5.0	2.8	13.4	1.5
131+30.00	5.0	3.4	15.4	1.7
131+35.00	5.0	4.1	18.6	2.1
131+40.00	5.0	4.3	20.8	2.3
131+45.00	5.0	4.3	21.3	2.4
131+50.00	5.0	2.9	12.3	1.4
131+64.14	14.1	++	39.3	4.4
TOPSOIL AREA - Maple Ave to IL Route 22				**45.0**
SUBTOTAL TOPSOIL AREAS ALONG THE EAST SIDE OF THE PROPOSED SIDEWALK				**493.4**
TOTAL TOPSOIL AREAS				**1039.7**

'++ IRREGULAR AREA

7 — SCHEDULE OF FURNISHING AND PLACING TOPSOIL 4"; SODDING; & RELATED ITEMS

TOTAL AREA FURNISHING AND PLACING TOPSOIL 4" (sq yd) FROM TOPSOIL SCHEDULE	**1039.7**
+10% CONTINGENCY	104.0
TOTAL AREA FURNISHING AND PLACING TOPSOIL 4" (sq yd)	**1143.6**
TOTAL SODDING AREA (sq yd)	**1143.6**
NITROGEN FERTILIZER NUTRIENT @ .02 lb/sq yd (lb)	**23.0**
POTASSIUM FERTILIZER NUTRIENT @ .02 lb/sq yd (lb)	**23.0**
SUPPLEMENTAL WATERING @ 3 gal/sq yd (unit) [3 APPLICATIONS]	**10.0**

10 — SCHEDULE OF BITUMINOUS MATERIALS (PRIME COAT)

AREA FROM HOT-MIX ASPHALT POLYMERIZED LEVELING BINDER COURSE [SQ FT] (SCHEDULE 11, PLAN SHEET 14)	191489.7
AREA FROM HOT-MIX ASPHALT BINDER COURSE [SQ FT] (SCHEDULE 13, PLAN SHEET 15)	13693.7
SUM OF MILLED & AGGREGATE AREAS (SQ FT)	205183.4
AREA FROM HOT-MIX ASPHALT SURFACE COURSE [SQ FT] (SCHEDULE 15, PLAN SHEET 16)	213518.9
SUM OF OVERLAY AREAS (SQ FT)	**213518.9**
TYPE SS-1 @ 0.05 LB/SQ. FT.	
PAY CODE 40600275 — **PRIME QUANTITY (LBS.)**	**15805.5**
10% CONTINGENCY	1580.6
TOTAL PRIME (LBS.)	**17386.1**

The Prime Coat Schedule is an example of a summary schedule - drawing together quantities calculated on separate schedules to define the projects total. Note how the separate schedules are identified in the summary schedule.

Exhibit 5

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/22/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING
QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	13	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 4

8 SCHEDULE OF EROSION CONTROL ITEMS

FROM STATION	TO STATION	OFFSET (ft)	28000305 TEMPORARY DITCH CHECKS (ft)	28000510 INLET FILTERS (ea)	X2800500 INLET PROTECTION, SPECIAL (ea)	XX006729 PERIMETER EROSION BARRIER, ROLLED EXCELSIOR (ft)	XX008865 PERMEABLE PLASTIC BERM (ft)
McDonalds Easement							
118+38.50	118+52.85	48.0 - 43.9				14.40	
118+41.45	118+55.75	58.7 - 54.6				14.30	
119+15.90	119+54.60	42.6				38.70	
119+38.14		42.6		1.0			
119+38.94		30.6		1.0			
120+16.65		31.7			1.0		
North of IL Route 12 to Terrace Lane							
123+25.00	123+45.65	29 - 32				20.90	
123+45.65	123+70.00	32.0				24.35	
123+70.00	123+74.70	32 - 33				4.80	
123+74.70	123+79.70	33 - 36.6				6.20	
123+74.88		18.9		1.0			
123+79.70	123+84.50	36.6				4.80	
123+82.16		31.6		1.0			
Terrace Lane to Pine Avenue							
124+18.40	124+25.45	37.4				7.05	
124+25.45	124+30.05	37.4 - 32				7.10	
124+30.05	125+75.00	32.0				144.95	
125+75.00	125+80.00	32 - 39				7.00	
125+80.00	126+94.50	39.0				114.50	
126+50.00		31.7		1.0			
126+84.70		24.6			1.0		
126+99.80	127+11.05	51.1 - 45				11.25	
127+10.50		42.8		1.0			
Pine Avenue to Maple Avenue							
127+40.21		43.2		1.0			
127+48.42		56.5			1.0		
127+60.00		37.6	14.0				14.0
127+61.22		19.6			1.0		
127+64.40		16.2		1.0			
127+94.70		34.4	14.0				14.0
128+50.30	128+75.20	40 - 32.6				26.00	
128+75.20	129+00.00	32.6 - 30.1				25.00	
129+00.00	129+25.00	30.1 - 29.8				25.00	
129+25.00	129+50.00	29.8 - 28.5				25.00	
129+50.00	129+74.90	28.5 - 30				24.90	
129+74.90	129+99.80	30 - 35.6				25.60	
129+99.80	130+20.00	35.6				20.20	
130+20.00	130+30.40	35.6 - 39.2				11.00	
130+28.18		51.8			1.0		
Maple Avenue to IL Route 22							
130+70.00		52.0			1.0		
130+85.22		17.4		1.0			
130+90.00	131+15.00	16.0				25.00	
131+32.38		23.4			1.0		
TOTAL EROSION CONTROL ITEMS			**28.0**	**9.0**	**7.0**	**628.00**	**28.0**

9 SCHEDULE OF AGGREGATE BASE COURSE

(WEIGHT 2 TON/CU YD)

QUANTITIY SCHEDULE	AREA (sq ft)	AREA (sq yd)	DEPTH (in)	VOLUME (cu yd)	QUANTITY (ton)
SCHEDULE OF PORTLAND CEMENT CONCRETE SIDEWALK (SCHEDULE 17, PLAN SHEET 15)	4910.2	545.6	6.0	90.9	181.9
SCHEDULE OF CONCRETE ENTRANCE (SCHEDULE 14, PLAN SHEET 15)	459.7	51.1	6.0	8.5	17.0
SCHEDULE OF CONCRETE CURB & COMBINATION CONCRETE CURB AND GUTTER (SCHEDULE 19, PLAN SHEET 18)	184.8	20.5	6.0	3.4	6.8
SUBTOTAL AGGREGATE BASE COURSE COURSE		**617.2**		**102.9**	**205.7**
CONTINGENCY +15% (10% Sidewalk Related & 5% Resurfacing Related)					30.9
TOTAL AGGREGATE BASE COURSE COURSE					**236.6**

12 SCHEDULE OF TEMPORARY RAMP

FROM	TO	LEFT OR RIGHT	LENGTH (FEET)	WIDTH (FEET)	QUANTITY (SQ YDS)
123+38.55	124+11.94	LT	73.4	1.0	8.2
124+62.15	125+07.40	LT	45.3	1.0	5.0
125+84.33	126+14.91	LT	30.6	1.0	3.4
128+15.36	128+45.93	RT	30.6	1.0	3.4
PAY CODE 40600900				**SUBTOTAL**	**20.0**
				10% CONTINGENCY	2.0
				TOTAL	**22.0**

11 SCHEDULE OF POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50

FROM	TO	IRREGULAR AREA INCLUDES	LENGTH (feet)	AVERAGE WIDTH (feet)	DEPTH (inch)	AREA FOR PRIME COAT (sq ft)	QUANTITY (ton)
LEFT SIDE							
79+03.75	80+35.68	Cuba Road	131.9	++	0.75	5861.9	26.9
80+35.68	84+00.00		364.3	20.0	0.75	7286.4	33.4
84+00.00	87+38.23		338.2	16.8	0.75	5682.3	26.0
87+38.23	93+59.70		621.5	11.0	0.75	6836.2	31.3
93+59.70	94+72.04	Braemar Ln	112.3	++	0.75	2774.0	12.7
94+72.04	95+84.90		112.9	24.0	0.75	2708.6	12.4
95+84.90	98+04.23		219.3	18.6	0.75	4079.5	18.7
98+04.23	101+22.20		318.0	11.0	0.75	3497.7	16.0
101+22.20	104+26.89		304.7	16.5	0.75	5027.4	23.0
104+26.89	106+37.50		210.6	20.0	0.75	4212.2	19.3
106+37.50	107+55.79	Com Entrance	118.3	++	0.75	3530.4	16.2
107+55.79	109+04.23		148.4	32.0	0.75	4750.1	21.8
109+04.23	110+36.59		132.4	28.0	0.75	3706.1	17.0
110+36.59	112+23.87		187.3	24.0	0.75	4494.7	20.6
112+23.87	113+02.38	Railroad	78.5	++	0.75	1567.2	7.2
RAILROAD							
113+44.64	114+18.42	Railroad	73.8	++	0.75	1454.7	6.7
114+18.42	115+97.05		178.6	24.0	0.75	4287.1	19.6
115+97.05	117+11.67	Com Entrance	114.6	++	0.75	3961.1	18.2
117+11.67	118+17.58		105.9	36.0	0.75	3812.8	17.5
118+17.58	119+76.76		159.2	30.5	0.75	4855.0	22.3
119+76.76	120+63.25		86.5	24.0	0.75	2075.8	9.5
120+63.25	120+77.46	US Route 12	14.2	++	0.75	216.1	1.0
US ROUTE 12							
121+88.89	122+42.00	US Route 12	53.1	++	0.75	1406.3	6.4
122+42.00	129+73.80		731.8	24.0	0.75	17563.2	80.5
RIGHT SIDE							
79+03.75	80+49.47	Cuba Road	145.7	++	0.75	5478.9	25.1
80+49.47	84+00.00		350.5	20.0	0.75	7010.6	32.1
84+00.00	87+38.23		338.2	16.6	0.75	5614.6	25.7
87+38.23	90+61.11		322.9	11.0	0.75	3551.7	16.3
90+61.11	92+01.67		140.6	18.5	0.75	2600.4	11.9
92+01.67	95+12.16		310.5	24.0	0.75	7451.8	34.2
95+12.16	96+46.16		134.0	18.5	0.75	2479.1	11.4
96+46.16	99+20.73		274.6	13.0	0.75	3569.4	16.4
99+20.73	101+22.20		201.5	11.0	0.75	2216.2	10.2
101+22.20	102+32.11		109.9	14.9	0.75	1637.7	7.5
102+32.11	102+73.78		41.7	21.7	0.75	904.2	4.1
102+73.78	105+09.58		235.8	27.6	0.75	6508.1	29.8
105+09.58	105+41.77		32.2	25.3	0.75	814.4	3.7
105+41.77	108+71.69		329.9	20.0	0.75	6598.4	30.2
108+71.69	110+58.65		187.0	17.3	0.75	3234.4	14.8
110+58.65	110+59.64		1.0	15.6	0.75	15.4	0.1
110+59.64	113+02.38		242.7	14.0	0.75	3398.4	15.6
113+02.38	113+21.37		19.0	7.0	0.75	132.9	0.6
RAILROAD							
113+79.67	113+98.55		18.9	7.0	0.75	132.2	0.6
113+98.55	116+34.23		235.7	14.0	0.75	3299.5	15.1
116+34.23	117+76.16		141.9	19.0	0.75	2696.7	12.4
117+76.16	120+25.97		249.8	24.0	0.75	5983.5	27.4
120+25.97	120+67.36	US Route 12	41.4	++	0.75	999.8	4.6
US ROUTE 12							
121+80.38	122+19.35	US Route 12	39.0	++	0.75	461.5	2.1
122+19.35	129+73.80		754.4	12.0	0.75	9053.4	41.5
PAY CODE 40600827 (110 lbs./Sq. Yd./1" Depth)					**SUBTOTAL**	**191489.7**	**877.7**
					5% CONTINGENCY		43.9
					TOTAL	**191489.7**	**921.5**

Exhibit 5

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/22/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING

QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	14	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 4

13 SCHEDULE OF HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

FROM	TO	LEFT OR RIGHT	LENGTH (feet)	AVERAGE WIDTH (feet)	DEPTH (inch)	AREA FOR PRIME COAT (sq ft)	QUANTITY (ton)
HMA SHOULDERS							
80+35.68	87+38.23	LT	702.55	2.0	4.50	1405.1	39.3
87+38.23	93+76.15	LT	637.92	4.0	4.50	2551.7	71.4
94+72.04	95+84.80	LT	112.76	4.0	4.50	451.0	12.6
95+84.80	98+04.23	LT	219.43	2.9	4.50	636.3	17.8
98+04.23	101+22.20	LT	317.97	4.0	4.50	1271.9	35.6
101+22.20	105+34.17	LT	411.97	2.0	4.50	823.9	23.1
105+34.17	105+67.97	LT	33.8	++	4.50	298.2	8.3
112+28.17	112+92.31	LT	64.14	2.0	4.50	128.3	3.6
113+16.63	113+97.85	LT	81.22	2.0	4.50	162.4	4.5
80+49.47	87+38.23	RT	688.76	2.0	4.50	1377.5	38.6
87+38.23	90+61.11	RT	322.88	4.0	4.50	1291.5	36.2
90+61.11	92+13.54	RT	152.43	2.0	4.50	304.9	8.5
99+20.73	101+22.20	RT	201.47	4.0	4.50	805.9	22.6
101+22.20	102+32.11	RT	109.91	2.0	4.50	219.8	6.2
105+41.77	106+74.23	RT	132.46	2.0	4.50	264.9	7.4
110+63.87	111+21.29	RT	57.42	2.0	4.50	114.8	3.2
111+94.57	113+49.29	RT	154.72	2.0	4.50	309.4	8.7
113+73.44	116+05.98	RT	232.54	2.0	4.50	465.1	13.0
116+05.98	116+34.23	RT	28.25	3.0	4.50	84.8	2.4
116+34.23	118+15.76	RT	181.53	4.0	4.50	726.1	20.3
PAY CODE 40603085 (112 lbs./Sq. Yd./1" Depth)					SUBTOTAL	13693.7	383.4
					5% CONTINGENCY		19.2
					TOTAL	13693.7	402.6

++ IRREGULAR AREA

16 SCHEDULE OF PROTECTIVE COAT

QUANTITIY SCHEDULE	CONCRETE SURFACE AREA (sq ft)	PROTECTIVE COAT (sq yd)
AREA FROM PORTLAND CEMENT CONCRETE SIDEWALK [SQ FT] (SCHEDULE 17, PLAN SHEET 15)	4910.2	545.6
AREA FROM CONCRETE ENTRANCE [SQ FT] (SCHEDULE 14, PLAN SHEET 15)	196.5	21.8
AREA FROM CONCRETE CURB & COMBINATION CONCRETE CURB AND GUTTER [SQ FT] (SCHEDULE 19, PLAN SHEET 18)	1281.9	142.4
SUBTOTAL PROTECTIVE COAT		**709.9**
10% CONTINGENCY		71.0
TOTAL PROTECTIVE COAT		**780.8**

17 SCHEDULE OF PORTLAND CEMENT CONCRETE SIDEWALK and RELATED ITEMS

FROM STATION	TO STATION	LENGTH (ft)	AVERAGE WIDTH (ft)	AGGREGATE BASE COURSE & PROTECTIVE COAT AREA (sq ft)	SIDEWALK REMOVAL (sq ft)	PCC SIDEWALK 5 INCH (sq ft)	PCC SIDEWALK 6 INCH (sq ft)	DETECTABLE WARNINGS (sq ft)
Adjacent to McDonalds & Easement Area								
118+39.99	118+54.20	14.2	5.0	71.1	71.1	71.1		
118+75.00	118+80.00	5.0	9.4	47.0		47.0		
118+80.00	118+95.65	15.6	6.5	101.7		101.7		
118+95.65	119+16.00	20.4	5.0	101.8		101.8		
119+16.00	119+54.50	38.5	5.0	192.5		192.5		
119+54.50	120+19.12	64.6	5.0	323.1		323.1		
120+19.12	120+28.84	9.9	5.0	49.7		49.7		
North of IL Route 12 to Terrace Lane								
123+25.00	123+50.00	25.0	5.0	125.0		125.0		
123+50.00	123+74.07	24.1	5.0	120.3		120.3		
123+72.07	123+74.07	2.0	5.0					10.0
123+74.07	123+79.52	5.5	++	14.6		14.6		
Terrace Lane to Pine Avenue								
124+24.19	124+29.64	5.4	++	17.9		17.9		
124+29.64	124+31.64	2.0	5.0					10.0
124+29.64	124+67.96	38.3	5.0	191.6		191.6		
124+67.96	125+07.04	39.7	5.0	198.5		198.5		
125+07.04	126+31.37	124.3	5.0	621.7		621.7		
126+30.01	126+94.83	64.8	3.8		246.3			
126+31.37	126+90.00	61.3	5.0	306.5		306.5		
126+90.00	126+99.80	9.8	5.0	49.0		49.0		
126+94.83	126+99.80	5.0	18.9		93.9	0.0		
126+99.80	127+06.25	6.5	16.9	109.0		109.0		
126+99.80	127+08.53	8.7	++		44.9			
127+04.25	127+06.25	2.0	5.0					10.0
127+06.25	127+08.56	2.3	++	6.3		6.3		
Pine Avenue to Maple Avenue								
127+42.40	127+45.08	2.7	++	7.1		7.1		
127+45.08	127+47.08	2.0	5.0					10.0
127+45.08	127+52.08	22.2	5.0	111.0		111.0		
127+52.08	127+53.16	22.2	++	5.6		5.6		
127+53.16	127+73.18							
127+73.18	127+83.97	11.2	5.0	56.0		56.0		
127+83.97	127+90.46	6.5	5.0	32.4		32.4		
127+90.46	128+09.54	19.3	5.0	96.5		96.5		
128+09.54	128+23.60	14.1	5.0	70.3		70.3		
128+23.60	128+40.20	16.6	5.0	83.0			83.0	
128+40.20	128+54.40	14.2	5.0	71.0		71.0		
128+54.40	128+75.00	20.8	6.0	124.8		124.8		
128+75.00	129+55.84	80.8	7.0	565.9		565.9		
129+55.84	129+94.16	39.0	5.0	195.0		195.0		
129+94.16	130+22.86	28.7	5.0	143.5		143.5		
130+22.86	130+22.86	0.0	5.0					0.0
130+22.86	130+26.49	3.6	++	10.2		10.2		
Maple Avenue to IL Route 22								
130+67.60	130+72.01	4.4	++	11.8		11.8		
130+72.01	130+74.01	2.0	5.0					10.0
130+72.01	130+82.30	10.3	5.0	51.4		51.4		
130+82.30	131+12.70	31.2	6.0	187.2		187.2		
131+12.70	131+15.95	3.3	7.0	22.8		22.8		
131+15.95	131+39.17	23.4	8.0	187.2		187.2		
131+39.17	131+46.20	7.0	9.0	63.3		63.3		
131+46.20	131+68.72	++	++	167.0		167.0		
131+47.43	131+61.15	16.0	2.0					32.0
TOTAL PORTLAND CEMENT CONCRETE SIDEWALK				4910.2	456.2	4827.2	83.0	82.0

++ Irregular Area

Multiple pay items (usually related to or calculated from one another) may be shown on one schedule

14 SCHEDULE OF PRIVATE ENTRANCE and MAILBOX TURNOUT [STATION 128+31.50 RIGHT]

FROM STATION	TO STATION	PAVEMENT ITEM	LENGTH (ft)	AVERAGE WIDTH (ft)	AREA (sq ft)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 THICKNESS (in)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 QUANTITY (ton)	AGGREGATE BASE COURSE TYPE B AREA (sq ft)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH (sq yd)	MAILBOX POST (each)	WIDTH AT ROW FOR SAWCUT (ft)
128+04.36	128+34.36	MBTO	30.0	2.0	60.0	2.5	0.9	60.0			
128+34.36	128+54.36	MBTO	20.0	4.0	80.0	2.5	1.2	80.0			
128+54.36	128+74.36	MBTO	20.0	2.0	40.0	2.5	0.6	40.0			
128+44.50										1.0	
128+20.55	128+41.82	HMA ENTRANCE PAVEMENT	21.3	++	83.2	2.5	1.3	83.2			
128+23.85	128+39.96	CONCRETE ENTRANCE PAVEMENT	16.1	12.2	196.5			196.5	21.8		16.1
SUBTOTAL ENTRANCE RELATED ITEMS					**459.7**		**4.1**	**459.7**	**21.8**	**1.0**	
CONTINGENCY +10%							0.4		2.2		
TOTAL ENTRANCE RELATED ITEMS					**459.7**		**4.5**	**459.7**	**24.0**	**1.0**	

THE REMOVAL OF THE EXISTING DRIVEWAY PAVEMENT (HMA & CONCRETE) WILL BE PAID FOR AS EARTH EXCAVATION

++ IREGULAR AREA

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/22/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING

QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	15	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 5

Exhibit 4

Exhibit 5

15 SCHEDULE OF HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

FROM	TO	IRREGULAR AREA INCLUDES	LENGTH (feet)	AVERAGE WIDTH (feet)	DEPTH (inch)	AREA FOR PRIME COAT (sq ft)	QUANTITY (ton)
RIGHT SIDE							
78+88.75	80+49.47	Cuba Road	160.7	++	1.50	65.3	0.6
80+49.47	84+00.00		350.5	22.0	1.50	7711.7	70.7
84+00.00	87+38.23		338.2	18.5	1.50	6257.3	57.4
87+38.23	90+61.11		322.9	15.0	1.50	4843.2	44.4
90+61.11	92+01.60		140.5	20.5	1.50	2880.0	26.4
92+01.60	92+13.54	C&G Outlet	11.9	++	1.50	310.3	2.8
92+13.54	95+12.16		298.6	24.0	1.50	7166.9	65.7
95+12.16	96+46.16		134.0	18.5	1.50	2479.1	22.7
96+46.16	99+20.73		274.6	13.0	1.50	3569.4	32.7
99+20.73	99+22.00	C&G Outlet	1.3	++	1.50	18.1	0.2
99+22.00	101+22.20		200.2	15.0	1.50	3003.0	27.5
101+22.20	102+32.11		109.9	14.9	1.50	1637.7	15.0
102+32.11	102+73.78		41.7	21.7	1.50	904.2	8.3
102+73.78	105+09.58		235.8	27.6	1.50	6508.1	59.7
105+09.58	105+41.77		32.2	25.3	1.50	814.4	7.5
105+41.77	106+74.23		132.5	22.0	1.50	2914.1	26.7
106+74.23	108+71.69		197.5	20.0	1.50	3949.2	36.2
108+71.69	110+58.65		187.0	17.3	1.50	3234.4	29.6
110+58.65	110+63.87		5.2	16.5	1.50	86.1	0.8
110+63.87	111+21.29		57.4	16.0	1.50	918.7	8.4
111+21.29	111+94.57		73.3	14.0	1.50	1025.9	9.4
111+94.57	113+27.58		133.0	16.0	1.50	2128.2	19.5
113+27.58	113+47.29		19.7	8.0	1.50	157.7	1.4
RAILROAD							
113+54.49	113+76.12		21.6	8.0	1.50	173.0	1.6
113+76.12	116+05.98		229.9	16.0	1.50	3677.8	33.7
116+05.98	117+76.02		170.0	22.0	1.50	3740.9	34.3
117+76.02	118+15.76		39.7	28.0	1.50	1112.7	10.2
118+15.76	120+25.97		210.2	24.0	1.50	5045.0	46.2
120+25.97	120+86.69	US Route 12	60.7	++	1.50	1922.5	17.6
US ROUTE 12							
121+49.44	122+84.71	US Route 12	135.3	++	1.50	3081.3	28.2
122+84.71	123+43.99		59.3	12.0	1.50	711.4	6.5
123+43.99	124+56.82	Terrace Ave	112.8	++	1.50	2305.9	21.1
124+56.82	126+73.71		216.9	12.0	1.50	2602.7	23.9
126+73.71	127+80.02	Pine Ave	106.3	++	1.50	2205.6	20.2
127+80.02	129+88.80		208.8	12.0	1.50	2505.4	23.0

FROM	TO	IRREGULAR AREA INCLUDES	LENGTH (feet)	AVERAGE WIDTH (feet)	DEPTH (inch)	AREA FOR PRIME COAT (sq ft)	QUANTITY (ton)
LEFT SIDE							
78+88.75	80+35.68	Cuba Road	146.9	++	1.50	6858.5	62.9
80+35.68	84+00.00		364.3	22.0	1.50	8015.0	73.5
84+00.00	87+38.23		338.2	18.5	1.50	6257.3	57.4
87+38.23	93+59.70		621.5	15.0	1.50	9322.1	85.5
93+59.70	94+72.04	Braemar Ln	112.3	++	1.50	3570.9	32.7
94+72.04	95+84.90		112.9	28.0	1.50	3160.1	29.0
95+84.90	98+04.23		219.3	21.5	1.50	4715.6	43.2
98+04.23	101+22.20		318.0	15.0	1.50	4769.6	43.7
101+22.20	104+26.89		304.7	18.5	1.50	5636.8	51.7
104+26.89	105+34.17		107.3	22.0	1.50	2360.2	21.6
105+34.17	105+67.97	C&G Outlet	33.8	++	1.50	972.2	8.9
105+67.97	106+37.50		69.5	20.0	1.50	1390.6	12.7
106+37.50	107+55.79	Com Entrance	118.3	++	1.50	4445.0	40.7
107+55.79	109+04.23		148.4	32.0	1.50	4750.1	43.5
109+04.23	110+36.59		132.4	28.0	1.50	3706.1	34.0
110+36.59	112+23.87		187.3	24.0	1.50	4494.7	41.2
112+23.87	113+27.58	Railroad	103.7	++	1.50	2350.3	21.5
RAILROAD							
113+16.63	114+18.42	Railroad	101.8	++	1.50	2268.9	20.8
114+18.42	115+97.05		178.6	24.0	1.50	4287.1	39.3
115+97.05	117+11.67	Com Entrance	114.6	++	1.50	4928.3	45.2
117+11.67	118+17.58		105.9	36.0	1.50	3812.8	35.0
118+17.58	119+76.76		159.2	30.5	1.50	4855.0	44.5
119+76.76	120+04.94		28.2	24.0	1.50	676.3	6.2
120+04.94	121+14.88	US Route 12	109.9	++	1.50	3850.2	35.3
US ROUTE 12							
121+88.89	122+42.00	US Route 12	53.1	++	1.50	1406.3	12.9
122+42.00	126+68.51		426.5	24.0	1.50	10236.2	93.8
126+68.51	127+70.43	Com Entrance	101.9	++	1.50	3515.0	32.2
127+70.43	129+88.80		218.4	24.0	1.50	5240.9	48.0

PAY CODE 40603340 (112 lbs./Sq. Yd./1" Depth)	SUBTOTAL	213518.9	1957.3
	5% CONTINGENCY		97.9
	TOTAL	213518.9	2055.1

++IRREGULAR AREA

20 SCHEDULE OF CLASS D PATCHING

PAVEMENT PATCHING			AREA (sq yd)
AREA OF MAINLINE HMA CONCRETE SURFACE COURSE (LESS INTERSECTION RIGHT TURN LANE WIDENING AREAS)			23751.5
PATCHING @ 5%			1187.6
44201773	CLASS D PATCHES, TYPE I, 10 INCH	10%	118.8
44201777	CLASS D PATCHES, TYPE II, 10 INCH	15%	178.1
44201781	CLASS D PATCHES, TYPE III, 10 INCH	45%	534.4
44201783	CLASS D PATCHES, TYPE IV, 10 INCH	30%	356.3

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/22/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING
QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	16	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 4

18 SCHEDULE OF HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"

FROM	TO	IRREGULAR AREA INCLUDES	LENGTH (feet)	AVERAGE WIDTH (feet)	AREA (sq ft)	AREA (sq yd)
HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4" LEFT SIDE						
79+03.75	80+35.68	Cuba Road	131.9	++	5861.9	651.3
80+35.68	84+00.00		364.3	20.0	7286.4	809.6
84+00.00	87+38.23		338.2	16.8	5682.3	631.4
87+38.23	93+59.70		621.5	11.0	6836.2	759.6
93+59.70	94+72.04	Braemar Ln	112.3	++	2774.0	308.2
94+72.04	95+84.90		112.9	24.0	2708.6	301.0
95+84.90	98+04.23		219.3	18.6	4079.5	453.3
98+04.23	101+22.20		318.0	11.0	3497.7	388.6
101+22.20	104+26.89		304.7	16.5	5027.4	558.6
104+26.89	106+37.50		210.6	20.0	4212.2	468.0
106+37.50	107+55.79	Com Entrance	118.3	++	3530.4	392.3
107+55.79	109+04.23		148.4	32.0	4750.1	527.8
109+04.23	110+36.59		132.4	28.0	3706.1	411.8
110+36.59	112+23.87		187.3	24.0	4494.7	499.4
112+23.87	113+02.38	Railroad	78.5	++	1567.2	174.1
RAILROAD						
113+44.64	114+18.42	Railroad	73.8	++	1454.7	161.6
114+18.42	115+97.05		178.6	24.0	4287.1	476.3
115+97.05	117+11.67	Com Entrance	114.6	++	3961.1	440.1
117+11.67	118+17.58		105.9	36.0	3812.8	423.6
118+17.58	119+76.76		159.2	30.5	4855.0	539.4
119+76.76	120+63.25		86.5	24.0	2075.8	230.6
120+63.25	120+77.46	US Route 12	14.2	++	216.1	24.0
US ROUTE 12						
121+88.89	122+42.00	US Route 12	53.1	++	1406.3	156.3
122+42.00	129+73.80		731.8	24.0	17563.2	1951.5

++IRREGULAR AREA

FROM	TO	IRREGULAR AREA INCLUDES	LENGTH (feet)	AVERAGE WIDTH (feet)	AREA (sq ft)	AREA (sq yd)
HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4" RIGHT SIDE						
79+03.75	80+49.47	Cuba Road	145.7	++	5478.9	608.8
80+49.47	84+00.00		350.5	20.0	7010.6	779.0
84+00.00	87+38.23		338.2	16.6	5614.6	623.8
87+38.23	90+61.11		322.9	11.0	3551.7	394.6
90+61.11	92+01.67		140.6	18.5	2600.4	288.9
92+01.67	95+12.16		310.5	24.0	7451.8	828.0
95+12.16	96+46.16		134.0	18.5	2479.1	275.5
96+46.16	99+20.73		274.6	13.0	3569.4	396.6
99+20.73	101+22.20		201.5	11.0	2216.2	246.2
101+22.20	102+32.11		109.9	14.9	1637.7	182.0
102+32.11	102+73.78		41.7	21.7	904.2	100.5
102+73.78	105+09.58		235.8	27.6	6508.1	723.1
105+09.58	105+41.77		32.2	25.3	814.4	90.5
105+41.77	108+71.69		329.9	20.0	6598.4	733.2
108+71.69	110+58.65		187.0	17.3	3234.4	359.4
110+58.65	110+59.64		1.0	15.6	15.4	1.7
110+59.64	113+02.38		242.7	14.0	3398.4	377.6
113+02.38	113+21.37		19.0	7.0	132.9	14.8
RAILROAD						
113+79.67	113+98.55		18.9	7.0	132.2	14.7
113+98.55	116+34.23		235.7	14.0	3299.5	366.6
116+34.23	117+76.16		141.9	19.0	2696.7	299.6
117+76.16	120+25.97		249.8	24.0	5983.5	664.8
120+25.97	120+67.36	US Route 12	41.4	++	999.8	111.1
US ROUTE 12						
121+80.38	122+19.35	US Route 12	39.0	++	461.5	51.3
122+19.35	129+73.80		754.4	12.0	9053.4	1005.9
					SUBTOTAL	11738.5
PAY CODE 44000158					10% CONTINGENCY	1173.9
					TOTAL	12912.4

21 SCHEDULE OF ITEMS TO BE MOVED OR ADJUSTED

FIRE HYDRANT AND VALVE TO BE MOVED

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LEFT OR RIGHT	QUANTITY (each)
FIRE HYDRANT					1.0
120+20.70	40.2	120+20.70	42.6	LEFT	
VALVE					
120+20.90	38.5	120+20.90	40.2	LEFT	

DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED

STATION	OFFSET	EXISTING TOP ELEV	ADJUSTED TOP ELEV	LEFT OR RIGHT	QUANTITY (each)
128+59.90	30.60	847.58	847.97	RIGHT	1.0

UTILITY STRUCTURES TO BE ADJUSTED

STATION	OFFSET	EXISTING T/F ELEV	ADJUSTED T/F ELEV	LEFT OR RIGHT	QUANTITY (each)
127+88.30	27.0	845.55	846.90	RIGHT	1.0

HANDHOLE TO BE REMOVED

STATION	OFFSET	EXISTING TOP ELEV	ADJUSTED TOP ELEV	LEFT OR RIGHT	QUANTITY (each)
129+05.31	15.5	850.17	850.41	RIGHT	1.0

REMOVE AND REINSTALL EXISTING WIRELESS DETECTOR UNIT

STATION	OFFSET	LEFT OR RIGHT	QUANTITY (each)
83+88.00	12.0	LEFT	1.0
83+88.00	12.0	RIGHT	1.0
TOTAL			2.0

18A SCHEDULE OF HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

FROM	TO	IRREGULAR AREA INCLUDES	LENGTH (feet)	AVERAGE WIDTH (feet)	AREA (sq ft)	AREA (sq yd)
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH LEFT-RIGHT						
78+88.75	79+03.75	South Returns	15.00	++	903.4	100.4
Cuba Road West			++	++	550.0	61.1
Cuba Road East			++	++	592.3	65.8
Braemar Lane			++	++	732.6	81.4
Commercial Ent - 107+03.8			++	++	914.6	101.6
112+66.91	113+46.59	Railroad	79.68	++	1012.5	112.5
113+19.35	113+98.55	Railroad	79.20	++	1008.0	112.0
Commercial Ent - 116+52.5			++	++	967.9	107.5
120+54.67	121+14.88	US Route 12	60.21	++	1617.6	179.7
121+68.48	121+84.36	US Route 12	15.88	++	1456.1	161.8
Commercial Ent - 127+16.9			++	++	1075.3	119.5
Terrace Lane			++	++	931.7	103.5
Pine Avenue			++	++	890.2	98.9
129+73.80	129+88.80		15.00	36.0	540.0	60.0
					SUBTOTAL	1465.8
PAY CODE X4401198					10% CONTINGENCY	146.6
					TOTAL	1612.4

22 SCHEDULE OF CLASS SI CONCRETE (OUTLET)

STATION	STATION	LEFT OR RIGHT	A-A TO E-E (FEET)	F-F (FEET)	QUANTITY (CU YD)
105+45.42	105+80.72	LEFT	15.3	16.9	2.4
				SUBTOTAL	2.4
PAY CODE 60600095				10 % CONTINGENCY	0.2
				TOTAL	2.6

Exhibit 5

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING

QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	17	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

19 — SCHEDULE OF CONCRETE CURB & COMBINATION CONCRETE CURB AND GUTTER and RELATED ITEMS

FROM STATION	TO STATION	LEFT OR RIGHT	44000500 COMBINATION CURB AND GUTTER REMOVAL (ft)	AGGREGATE BASE COURSE AREA (sq yd)	PROTECTIVE COAT AREA (sq ft)	60600605 CONCRETE CURB, TYPE B (ft)	60603900 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT) (ft)	60605100 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT) (ft)	X6061005 CONCRETE CURB TYPE B (SPECIAL) (ft)	FULL CURB/ TRANSISTION/ ADA RAMP/ MBTO
McDonalds Easement										
118+82.08	119+88.50	LEFT		6.9	106.4				106.4	
North of IL Route 12 to Terrace Lane										
123+67.07	123+74.07	RIGHT		2.3	13.0	13.0				CURB & FLARE
123+71.05	123+74.41	RIGHT	4.0		8.0		4.0			TRANSISTION
123+74.41	123+79.96	RIGHT	7.6		15.2		7.6			ADA RAMP
123+79.96	123+82.31	RIGHT	3.9		7.8		3.9			TRANSISTION
Terrace Lane to Pine Avenue										
124+21.41	124+23.77	RIGHT	3.9		7.8		3.9			TRANSISTION
124+23.77	124+29.28	RIGHT	7.5		15.0		7.5			ADA RAMP
124+29.28	124+32.56	RIGHT	4.0		8.0		4.0			TRANSISTION
127+02.60	127+04.70	RIGHT	3.3		6.6		3.3			FULL CURB
127+04.70	127+06.76	RIGHT	3.8		7.6		3.8			TRANSISTION
127+06.76	127+09.12	RIGHT	5.6		11.2		5.6			ADA RAMP
127+09.12	127+10.43	RIGHT	4.1		8.2		4.1			TRANSISTION
Pine Avenue to Maple Avenue										
127+40.47	127+41.87	RIGHT	3.9		7.8		3.9			TRANSISTION
127+41.87	127+44.58	RIGHT	5.8		11.6		5.8			ADA RAMP
127+44.58	127+46.84	RIGHT	3.9		7.8		3.9			TRANSISTION
127+45.08	127+52.08	RIGHT		2.3	13.0	13.0				CURB & FLARE
127+98.36	128+04.36	RIGHT	6.0		12.0		6.0			TRANSISTION
128+04.36	128+74.36	RIGHT	70.0		140.0		70.0			MBTO
128+74.36	128+80.36	RIGHT	6.0		12.0		6.0			TRANSISTION
128+80.36	129+60.00	RIGHT	79.6		159.2		79.6			FULL CURB
129+60.00	129+62.00	RIGHT	2.0		4.0		2.0			FULL CURB
130+20.37	130+23.27	RIGHT	3.9		7.8		3.9			TRANSISTION
130+23.27	130+26.98	RIGHT	6.3		12.6		6.3			ADA RAMP
130+26.98	130+28.65	RIGHT	3.9		7.8		3.9			TRANSISTION
Maple Avenue to IL Route 22										
130+65.10	130+67.13	RIGHT	3.9		7.8		3.9			TRANSISTION
130+67.13	130+71.58	RIGHT	6.8		13.6		6.8			ADA RAMP
130+67.60	130+89.00	RIGHT		4.8	29.9	27.4				CURB & FLARE
130+71.58	130+74.57	RIGHT	3.9		7.8		3.9			TRANSISTION
130+72.01	130+85.00	RIGHT		3.3	19.0	19.0				CURB & FLARE
131+12.70	131+26.46	RIGHT		0.9	13.9				13.9	
131+45.41	131+48.74	RIGHT	3.9		11.7			3.9		TRANSISTION
131+48.74	131+61.80	RIGHT	16.8		50.4			16.8		ADA RAMP
131+61.80	131+65.77	RIGHT	5.8		17.4			5.8		TRANSISTION
RESURFACING CONTINGENCY QUANTITIES			200.0		500.0		100.0	100.0		
TOTAL CONCRETE CURB AND GUTTER			**480.1**	**20.5**	**1281.9**	**72.4**	**353.6**	**126.5**	**120.3**	

FULL CURB = FULL CURB HEIGHT
TRANSISTION = 6' TRANSISITION FROM FULL CURB HEIGHT TO DEPRESSED CURB
ADA RAMP = PEDESTRIAN RAMP DEPRESSED CURB
MBTO = DEPRESSED CURB FOR MAILBOX TURNOUT/ENTRANCE
CURB FLARE = TYPE B CURB INCLUDES CURB FLARE TRANSISTION FROM TYPE B CURB TO B-6.12/B-6.24 CURB AND GUTTER (PAID FOR AS 4 FEET OF LENGTH)

23 — SCHEDULE OF SHORT TERM PAVEMENT MARKINGS, PAVEMENT MARKING TAPE, TYPE III 4" and WORK ZONE PAVEMENT MARKING REMOVAL

FROM STATION	TO STATION	LEFT OR RIGHT	DESCRIPTION	LENGTH	QUANTITY (ft)
CUBA ROAD					
79+30.58	79+30.81	LEFT	LANE LINE	39.6	39.6
79+42.58	79+42.81	LEFT	DBL, 4" Y 11" C-C	39.6	8.0
79+29.88	79+29.98	RIGHT	DBL, 4" Y 11" C-C	15.9	8.0
79+41.88	79+41.98	RIGHT	LANE LINE	15.9	15.9
ELA ROAD					
79+87.00	81+30.00	LEFT	LANE LINE	143.0	143.0
79+87.00	81+30.00	RIGHT	DBL, 4" Y 11" C-C	143.0	32.0
81+20.00		CL	LEFT TURN ONLY		109.0
81+30.00	87+38.25	CL	MEDIAN	608.3	256.0
87+38.25	93+75.00	CL	DBL, 4" Y 11" C-C	636.8	128.0
92+22.50	95+22.50	RIGHT	LANE LINE	300.0	300.0
94+69.75	95+71.90	LEFT	LANE LINE	102.2	102.2
94+69.75	101+22.20	CL	DBL, 4" Y 11" C-C	652.5	136.0
95+61.90		LEFT	RIGHT TURN ONLY		109.0
101+22.20	105+32.25	CL	MEDIAN	410.0	176.0
105+32.25	106+54.25	LEFT	DBL, 4" Y 11" C-C	122.0	32.0
105+32.25	106+54.25	RIGHT	LANE LINE	122.0	122.0
105+42.25		CL	LEFT TURN ONLY		109.0
107+44.23	112+43.63	CL - LT	MEDIAN	499.4	208.0
107+47.43	109+04.23	LEFT	LANE LINE	156.8	156.8
108+94.23		LEFT	RIGHT TURN ONLY		109.0
109+16.80		RIGHT	RAILROAD CROSSING		200.0
111+08.80		RIGHT	RAILROAD CROSSING		200.0
112+43.63	113+11.38	LEFT	DBL, 4" Y 11" C-C	67.8	16.0
112+43.63	113+27.66	CL	LANE LINE	84.0	84.0
112+53.63		LEFT	LEFT TURN ONLY		109.0
OMISSION - RAILROAD CROSSING					
113+38.35	116+06.30	LEFT	DBL, 4" Y 11" C-C	267.9	56.0
113+54.57	116+06.30	CL	LANE LINE	251.7	251.7
115+64.30		LEFT	LEFT TURN ONLY		109.0
115+66.30		LEFT	RAILROAD CROSSING		200.0
116+79.23	118+75.40	LEFT	MEDIAN	196.2	80.0
116+83.00	118+17.60	LEFT	LANE LINE	134.6	134.6
117+74.75	120+55.00	RIGHT	LANE LINE	280.3	280.3
117+84.75		RIGHT	RIGHT TURN ONLY		109.0
117+87.30		LEFT	RAILROAD CROSSING		200.0
118+07.60		LEFT	RIGHT TURN ONLY		109.0
118+75.40	120+55.00	LEFT	DBL, 4" Y 11" C-C	179.6	40.0
118+75.40	120+55.00	CL	LANE LINE	179.6	179.6
118+85.40		LEFT	LEFT TURN ONLY		109.0
119+88.90		RIGHT	RIGHT TURN ONLY		109.0
122+19.16	123+63.00	CL	DBL, 4" Y 11" C-C	143.8	32.0
122+20.61	123+63.00	LEFT	LANE LINE	142.4	142.4
122+54.50		LEFT	LEFT TURN ONLY		109.0
124+20.00	124+77.20	LEFT	LANE LINE	57.2	57.2
124+20.00	126+68.50	CL-LT	DBL, 4" Y 11" C-C	248.5	56.0
124+67.20		LEFT	LEFT TURN ONLY		109.0
125+74.20	126+68.50	CL	LANE LINE	94.3	94.3
125+84.20		LEFT	LEFT TURN ONLY		109.0
127+70.50	128+79.25	LEFT	LANE LINE	108.8	108.8
127+70.50	129+88.80	CL	DBL, 4" Y 11" C-C	218.3	48.0
128+69.25			LEFT TURN ONLY		109.0
SUBTOTAL SHORT TERM PAVEMENT MARKINGS (1 APPLICATION)					**5850.3**
TOTAL SHORT TERM PAVEMENT MARKINGS - 4 APPLICATIONS (MILL; PRIME COAT; BINDER COURSE & PRIME COAT ON BINDER COURSE)					**23401.2**
TOTAL PAVEMENT MARKING TAPE, TYPE III 4" (1 APPLICATION - SURFACE COURSE)					**5850.3**
TOTAL WORK ZONE PAVEMENT MARKING REMOVAL (SQ FT) (REMOVAL OF PAVEMENT MARKING TAPE, TYPE III 4" FROM SURFACE COURSE)					**1950.1**

Exhibit 5

Exhibit 4

SCHEDULE OF TEMPORARY PAVEMENT MARKINGS

FROM STATION	TO STATION	LEFT OR RIGHT	DESCRIPTION	4" YELLOW (ft)	5" WHITE (ft)	6" WHITE (ft)	12" YELLOW (ft)	12" WHITE (ft)	24" WHITE (ft)	L & S WHITE (sq ft)
			CUBA ROAD							
79+14.09	79+43.02	LEFT	STOP BAR						28.9	
79+30.58	79+30.81	LEFT	LANE LINE			39.6				
79+42.58	79+42.81	LEFT	DBL, 4" Y 11" C-C	79.2						
79+29.88	79+29.98	RIGHT	DBL, 4" Y 11" C-C	31.8						
79+41.88	79+41.98	RIGHT	LANE LINE			15.9				
79+29.53	79+57.44	RIGHT	STOP BAR						27.9	
			ELA ROAD							
SW Return at Cuba Rd		LEFT	EDGELINE		76.8					
SE Return at Cuba Rd		RIGHT	EDGELINE		55.5					
NW Return at Cuba Rd		LEFT	EDGELINE		98.6					
NE Return at Cuba Rd		RIGHT	EDGELINE		87.8					
79+72.84	80+35.68	LEFT	DIAGONAL, 12" W					25.1		
79+75.49	80+49.47	RIGHT	DIAGONAL, 12" W					32.3		
79+85.00	79+85.00	LT-RT	STOP BAR						29.0	
79+87.00	81+30.00	LEFT	LANE LINE			143.0				
79+87.00	81+30.00	RIGHT	DBL, 4" Y 11" C-C	286.0						
80+05.30	93+59.70	LEFT	EDGELINE		1354.4					
80+13.94	113+43.89	RIGHT	EDGELINE		3330.0					
81+20.00		CL	LEFT TURN ONLY							36.4
81+30.00	87+38.25	CL	MEDIAN	2433.2						
81+30.00	87+38.25	CL	DIAGONAL, 12" Y @ 30' C-C				137.7			
87+38.25	93+75.00	CL	DBL, 4" Y 11" C-C	1273.6						
90+61.10	92+22.50	RIGHT	6' SKIP - 2' DASH			40.0				
92+22.50	95+22.50	RIGHT	LANE LINE			300.0				
SW Return at Braemer Ln		LEFT	EDGELINE		57.1					
NW Return at Braemer Ln		LEFT	EDGELINE		40.2					
94+69.75	95+71.90	LEFT	LANE LINE			102.2				
94+69.75	101+22.20	CL	DBL, 4" Y 11" C-C	1305.0						
94+72.04	106+37.50	LEFT	EDGELINE		1165.5					
95+61.90		LEFT	RIGHT TURN ONLY							36.4
101+22.20	105+32.25	CL	MEDIAN	1640.0						
101+22.20	105+32.25	CL	DIAGONAL, 12" Y @ 30' C-C				83.6			
105+32.25	106+54.25	LEFT	DBL, 4" Y 11" C-C	244.0						
105+32.25	106+54.25	RIGHT	LANE LINE			122.0				
105+42.25		CL	LEFT TURN ONLY							36.4
SW Rtn at Commercial Ent		LEFT	EDGELINE		57.1					
NW Rtn at Commercial Ent		LEFT	EDGELINE		33.1					
107+44.23	112+43.63	CL - LT	MEDIAN	1997.6						
107+44.23	112+43.63	CL - LT	DIAGONAL, 12" Y @ 30' C-C				188.8			
107+47.43	109+04.23	LEFT	LANE LINE			156.8				
107+51.92	112+95.04	LEFT	EDGELINE		543.1					
108+94.23		LEFT	RIGHT TURN ONLY							36.4
109+16.80		RIGHT	RAILROAD CROSSING						16.0	61.2
111+08.80		RIGHT	RAILROAD CROSSING						16.0	61.2
112+43.63	113+11.38	LEFT	DBL, 4" Y 11" C-C	135.6						
112+43.63	113+27.66	CL	LANE LINE			84.0				
112+53.63		LEFT	LEFT TURN ONLY							36.4
112+99.80		LT-RT	STOP BAR						24.0	
			OMISSION - RAILROAD CROSSING							
113+22.07	115+97.05	LEFT	EDGELINE		275.0					
113+38.35	116+06.30	LEFT	DBL, 4" Y 11" C-C	535.8						
113+54.57	116+06.30	CL	LANE LINE			251.7				
113+70.75	120+25.97	RIGHT	EDGELINE		655.2					
113+75.30		LEFT	STOP BAR						12.0	
115+64.30		LEFT	LEFT TURN ONLY							36.4
115+66.30		LEFT	RAILROAD CROSSING						16.0	61.2
SW Rtn at Commercial Ent		LEFT	EDGELINE		32.1					
116+06.10	117+74.75	RIGHT	6' SKIP - 2' DASH			42.0				
116+79.23	118+75.40	LEFT	MEDIAN	784.8						
116+79.23	118+75.40	LEFT	DIAGONAL, 12" Y @ 30' C-C				37.8			
116+83.00	118+17.60	LEFT	LANE LINE			134.6				
NW Rtn at Commercial Ent		LEFT	EDGELINE		14.3					
117+11.67	120+04.94	LEFT	EDGELINE		293.3					
117+14.25	118+75.40	CL	6' SKIP - 2' DASH			40.0				
117+74.75	120+55.00	RIGHT	LANE LINE			280.3				
117+84.75		RIGHT	RIGHT TURN ONLY							36.4
117+87.30		LEFT	RAILROAD CROSSING						16.0	61.2
118+07.60		LEFT	RIGHT TURN ONLY							36.4
118+17.60	119+76.76	LEFT	6' SKIP - 2' DASH			40.0				
118+75.40	120+55.00	LEFT	DBL, 4" Y 11" C-C	359.2						
118+75.40	120+55.00	CL	LANE LINE			179.6				
118+85.40		LEFT	LEFT TURN ONLY							36.4
119+88.90		RIGHT	RIGHT TURN ONLY							36.4
120+47.20	120+57.00	LT-RT	STOP BAR						43.6	
SW Return at US Rte 12		LEFT	EDGELINE		84.4					
SE Return at US Rte 12		RIGHT	EDGELINE		47.2					
120+85.06	121+06.30	LEFT	IDOT CROSS WALK			42.8				
120+91.38	121+08.59	LEFT	STOP BAR						17.5	
NW Return at US Rte 12		LEFT	EDGELINE		51.5					
NE Return at US Rte 12		RIGHT	EDGELINE		80.0					
122+07.24	122+14.04	LT-RT	CROSS WALK					115.0		
122+17.16	122+20.53	LT-RT	STOP BAR						28.4	
122+19.16	123+63.00	CL	DBL, 4" Y 11" C-C	287.6						
122+20.61	123+63.00	LEFT	LANE LINE			142.4				
122+27.11	123+44.00	RIGHT	EDGELINE		114.5					
122+42.00	126+68.51	LEFT	EDGELINE		426.5					
122+54.50		LEFT	LEFT TURN ONLY							36.4
SE Return at Terrace Ln		RIGHT	EDGELINE		44.7					
NE Return at Terrace Ln		RIGHT	EDGELINE		42.0					
124+20.00	124+77.20	LEFT	LANE LINE			57.2				
124+20.00	126+68.50	CL-LT	DBL, 4" Y 11" C-C	497.0						
124+56.82	126+73.71	RIGHT	EDGELINE		216.9					
124+67.20		LEFT	LEFT TURN ONLY							36.4
124+77.20	125+74.20	LEFT	6' SKIP - 2' DASH			24.0				
124+77.20	125+74.20	CL	6' SKIP - 2' DASH			24.0				
125+74.20	126+68.50	CL	LANE LINE			94.3				
125+84.20		LEFT	LEFT TURN ONLY							36.4
SE Return at Pine Ave		RIGHT	EDGELINE		35.6					
NE Return at Pine Ave		RIGHT	EDGELINE		38.1					
SW Rtn at Commercial Ent		LEFT	EDGELINE		24.5					
NW Rtn at Commercial Ent		LEFT	EDGELINE		29.3					
127+70.43	129+88.80	LEFT	EDGELINE		218.4					
127+70.50	128+79.25	LEFT	LANE LINE			108.8				
127+70.50	129+88.80	CL	DBL, 4" Y 11" C-C	436.6						
127+80.02	129+88.80	RIGHT	EDGELINE		208.8					
128+69.25			LEFT TURN ONLY							36.4
128+79.25	129+88.80	RIGHT	6' SKIP - 2' DASH			28.0				
128+79.25	129+88.80	RIGHT	6' SKIP - 2' DASH			28.0				
130+46.95	130+63.90	RIGHT	STOP BAR						33.9	
TOTAL TEMPORARY PAVEMENT MARKINGS				**12327.0**	**9831.5**	**2521.2**	**447.9**	**172.4**	**309.2**	**754.4**
							620.3			

NOTE:
TEMPORARY PAVEMENT MARKING QUANTITIES HAVE NOT BEEN INCLUDED FOR REPLACING THE EXISTING PAVEMENT MARKINGS ON THE CONCRETE PAVEMENT FROM THE NORTH RESURFACING LIMITS TO THE SOUTH SIDE OF THE EAST-WEST CROSS WALK AT IL ROUTE 22.

Note the location information provided.

Exhibit 5

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 20 40

LakeCounty
Division of Transportation

ELA ROAD RESURFACING
QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	19	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 4

26 SCHEDULE OF PAINT PAVEMENT MARKINGS

FROM STATION	TO STATION	LEFT OR RIGHT	DESCRIPTION	5" WHITE (ft)
ELA ROAD				
80+05.30	93+59.70	LEFT	EDGELINE	1354.4
80+13.94	113+43.89	RIGHT	EDGELINE	3330.0
94+72.04	106+37.50	LEFT	EDGELINE	1165.5
107+51.92	112+95.04	LEFT	EDGELINE	543.1
OMISSION - RAILROAD CROSSING				
113+22.07	115+97.05	LEFT	EDGELINE	275.0
113+70.75	120+25.97	RIGHT	EDGELINE	655.2
117+11.67	120+04.94	LEFT	EDGELINE	293.3
122+27.11	123+44.00	RIGHT	EDGELINE	114.5
122+42.00	126+68.51	LEFT	EDGELINE	426.5
124+56.82	126+73.71	RIGHT	EDGELINE	216.9
127+70.43	129+88.80	LEFT	EDGELINE	218.4
127+80.02	129+88.80	RIGHT	EDGELINE	208.8
TOTAL TEMPORARY PAVEMENT MARKINGS				8801.6

25 SCHEDULE OF THERMOPLASTIC PAVEMENT MARKINGS

FROM STATION	TO STATION	LEFT OR RIGHT	DESCRIPTION	4" YELLOW (ft)	5" WHITE (ft)	6" WHITE (ft)	12" WHITE (ft)	24" WHITE (ft)
CUBA ROAD								
79+14.09	79+43.02	LEFT	STOP BAR					28.9
79+30.58	79+30.81	LEFT	LANE LINE			39.6		
79+42.58	79+42.81	LEFT	DBL, 4" Y 11" C-C	79.2				
79+29.88	79+29.98	RIGHT	DBL, 4" Y 11" C-C	31.8				
79+41.88	79+41.98	RIGHT	LANE LINE			15.9		
79+29.53	79+57.44	RIGHT	STOP BAR					27.9
ELA ROAD								
SW Return at Cuba Rd		LEFT	EDGELINE		76.8			
SE Return at Cuba Rd		RIGHT	EDGELINE		55.5			
NW Return at Cuba Rd		LEFT	EDGELINE		98.6			
NE Return at Cuba Rd		RIGHT	EDGELINE		87.8			
SW Return at Braemer Ln		LEFT	EDGELINE		57.1			
NW Return at Braemer Ln		LEFT	EDGELINE		40.2			
SW Rtn at Commercial Ent		LEFT	EDGELINE		57.1			
NW Rtn at Commercial Ent		LEFT	EDGELINE		33.1			
OMISSION - RAILROAD CROSSING								
SW Rtn at Commercial Ent		LEFT	EDGELINE		32.1			
NW Rtn at Commercial Ent		LEFT	EDGELINE		14.3			
SW Return at US Rte 12		LEFT	EDGELINE		84.4			
SE Return at US Rte 12		RIGHT	EDGELINE		47.2			
120+85.06	121+06.30	LEFT	IDOT CROSS WALK			42.8		
120+91.38	121+08.59	LEFT	STOP BAR					17.5
NW Return at US Rte 12		LEFT	EDGELINE		51.5			
NE Return at US Rte 12		RIGHT	EDGELINE		80.0			
122+07.24	122+14.04	LT-RT	CROSS WALK				115.0	
SE Return at Terrace Ln		RIGHT	EDGELINE		44.7			
NE Return at Terrace Ln		RIGHT	EDGELINE		42.0			
SE Return at Pine Ave		RIGHT	EDGELINE		35.6			
NE Return at Pine Ave		RIGHT	EDGELINE		38.1			
SW Rtn at Commercial Ent		LEFT	EDGELINE		24.5			
NW Rtn at Commercial Ent		LEFT	EDGELINE		29.3			
TOTAL THERMOPLASTIC PAVEMENT MARKINGS				111.0	1029.9	98.3	115.0	74.3

27 SCHEDULE OF POLYUREA PAVEMENT MARKINGS TYPE 1

FROM STATION	TO STATION	LEFT OR RIGHT	DESCRIPTION	78008270 POLYUREA PAVEMENT MARKING TYPE 1- LINE 4" (ft)	78008270 POLYUREA PAVEMENT MARKING TYPE 1- LINE 5" (ft)	78008270 POLYUREA PAVEMENT MARKING TYPE 1- LINE 6" (ft)	78008270 POLYUREA PAVEMENT MARKING TYPE 1- LINE 24" (ft)	78008200 POLYUREA PAVEMENT MARKING TYPE 1- LETTERS & SYMBOLS (sq ft)
129+88.80	131+48.50	LEFT	EDGELINE		164.9			
129+88.80	131+41.00	LEFT	DBL, 4" Y 11" C-C	319.4				
129+88.80	131+41.00	CL	LANE LINE			152.2		
SE Return at Maple Ave		RIGHT	EDGELINE		49.9			
130+46.75	130+69.50	RIGHT	RIGHT TURN ONLY					36.4
130+46.75	130+69.50	LEFT	THRU - LEFT ARROW					23.4
130+46.75	130+69.50	RIGHT	STOP BAR				17.0	
NE Return at Maple Ave		RIGHT	EDGELINE		41.1			
130+46.75	130+69.50	RIGHT	EDGELINE		53.3			
130+46.95	130+63.90	LT-RT	STOP BAR				31.6	
TOTAL PAVEMENT MARKINGS				319.4	309.2	152.2	48.6	59.8
78300100 PAVEMENT MARKING REMOVAL (SQ FT)				106.5	90.9	76.1	97.2	59.8
				430.5				

28 SCHEDULE OF DETECTOR LOOP INSTALLATION & REPLACEMENT

LOCATION	STATION	OFFSET	LEFT OR RIGHT	LOOP (feet)	LEAD (feet)	QUANTITY (feet)
LOOP REPLACEMENT FOR LOOPS DAMAGED DURING MILLING						
ELA ROAD AT CUBA ROAD						
ELA ROAD (SOUTH)	78+94.15	0.0	CI	24.0	25	49.0
	78+88.75	12.0	RIGHT	24.0	11.2	35.2
ELA ROAD (NORTH)	79+75.00	0.0	CL	24.0	27.4	51.4
	79+80.00	12.0	LEFT	24.0	11.7	35.7
	79+90.00	0.0	CL	24.0	23.2	47.2
	79+95.00	12.0	LEFT	24.0	11.5	35.5
	80+05.00	0.0	CL	24.0	24.4	48.4
	82+43.00	10.0	LEFT	32.0	7.0	39.0
	83+74.00	12.0	LEFT	24.0	6.4	30.4
CUBA ROAD (WEST)	79+36.50	39.3	LEFT	24.0	22.2	46.2
	79+24.50	43.3	LEFT	24.0	8.5	32.5
	79+36.50	54.3	LEFT	24.0	18.2	42.2
	79+24.50	58.3	LEFT	24.0	3.5	27.5
	79+36.50	69.3	LEFT	24.0	15.7	39.7
CUBA ROAD (EAST)	79+36.50	42.4	RIGHT	24.0	21.1	45.1
	79+48.50	45.4	RIGHT	24.0	7.9	31.9
	79+36.50	57.4	RIGHT	24.0	17.3	41.3
	79+48.50	60.4	RIGHT	24.0	3.1	27.1
ELA ROAD AT US ROUTE 12						
ELA ROAD (SOUTH)	120+22.74	18.0	RIGHT	24.0	3.1	27.1
	120+27.84	6.0	RIGHT	24.0	15.1	39.1
	120+27.84	5.8	LEFT	24.0	27.1	51.1
	120+37.74	19.0	RIGHT	28.0	3.1	31.1
	120+42.84	6.0	RIGHT	24.0	19.3	43.3
	120+42.84	5.8	LEFT	24.0	31.3	55.3
	120+52.74	21.0	RIGHT	36.0	9.1	45.1
	120+57.84	6.0	RIGHT	24.0	35.4	59.4
	120+57.84	5.8	LEFT	24.0	47.4	71.4
LOOP INSTALLATION - NEW PROPOSED LOOPS						
ELA ROAD AT US ROUTE 12						
ELA ROAD (NORTH)	121+94.20	6.0	LEFT	24.0	32.3	56.3
	121+99.00	18.0	LEFT	24.0	25.2	49.2
	121+99.00	37.5	LEFT	50.5	5.8	56.3
	122+09.20	6.0	LEFT	24.0	24.6	48.6
	122+14.00	18.0	LEFT	24.0	8.9	32.9
	122+24.20	6.0	LEFT	24.0	20.7	44.7
	122+29.00	18.0	LEFT	24.0	4.2	28.2
	122+39.20	6.0	LEFT	24.0	14.7	38.7
	122+44.00	18.0	LEFT	24.0	3.0	27.0
	125+62.00	18.0	LEFT	24.0	3.0	27.0
PAY CODE 88600600					TOTAL	1537.1

Exhibit 5

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING

QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	20	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 4

29 SCHEDULE OF BUTT JOINT FOR ENTRANCE RESURFACING

FROM STATION	TO STATION	ENTRANCE DESCRIPTION	LC400100 BUTT JOINT FOR ENTRANCE RESURFACING (foot)
111+39.61	111+73.74	COMMERCIAL ENTRANCE	34.1
118+22.31	118+64.88	IDOT MAINTENANCE FACILITY	42.6
123+48.18	124+01.62	COMMERCIAL ENTRANCE BEHIND C&G	53.4
			34.0
124+68.23	125+04.02	COMMERCIAL ENTRANCE BEHIND C&G	35.8
			26.0
125+88.08	126+11.00	COMMERCIAL ENTRANCE BEHIND C&G	22.0
			22.9
TOTAL			270.8

30 SCHEDULE OF SEGMENTAL CONCRETE BLOCK WALL

FROM STATION	TO STATION	LENGTH (inch)	HEIGHT (inch)	WALL AREA (sq ft)	LC500411 CONCRETE BLOCK WALL SEALANT (sq ft)
131+26.46	131+27.94	18.0	20.0	2.5	4.0
131+27.94	131+41.25	162.0	28.0	31.5	45.0
131+41.25	131+45.75	54.0	28.0	10.5	15.0
131+45.75	131+48.75	36.0	28.0	7.0	10.0
131+48.75	131+50.25	18.0	20.0	2.5	4.0
TOTALS				54.0	78.0

31 SCHEDULE OF INSTALL SURVEY MONUMENTS

STATION	OFFSET (feet)	LT/RT	DESCRIPTION	QUANTITY (each)
79+28.05	0.00	C/L	Illinois Section Corner	1.0
105+70.00	0.00	C/L	Illinois Section Corner	1.0
PAY CODE LC600200			TOTAL	2.0

Station - Offset locations provided in the schedule for "each" items

32 SCHEDULE OF GROOVED THERMOPLASTIC PAVEMENT MARKINGS

FROM STATION	TO STATION	LEFT OR RIGHT	DESCRIPTION	4" YELLOW (ft)	6" WHITE (ft)	12" YELLOW (ft)	12" WHITE (ft)	24" WHITE (ft)	L & S WHITE (sq ft)
79+72.84	80+35.68	LEFT	DIAGONAL, 12" W				25.1		
79+75.49	80+49.47	RIGHT	DIAGONAL, 12" W				32.3		
79+85.00	79+85.00	LT-RT	STOP BAR					29.0	
79+87.00	81+30.00	LEFT	LANE LINE		143.0				
79+87.00	81+30.00	RIGHT	DBL, 4" Y 11" C-C	286.0					
81+20.00		CL	LEFT TURN ONLY						36.4
81+30.00	87+38.25	CL	MEDIAN	2433.2					
81+30.00	87+38.25	CL	DIAGONAL, 12" Y @ 30' C-C			137.7			
87+38.25	93+75.00	CL	DBL, 4" Y 11" C-C	1273.6					
90+61.10	92+22.50	RIGHT	6' SKIP - 2' DASH		40.0				
92+22.50	95+22.50	RIGHT	LANE LINE		300.0				
94+69.75	95+71.90	LEFT	LANE LINE		102.2				
94+69.75	101+22.20	CL	DBL, 4" Y 11" C-C	1305.0					
95+61.90		LEFT	RIGHT TURN ONLY						36.4
101+22.20	105+32.25	CL	MEDIAN	1640.0					
101+22.20	105+32.25	CL	DIAGONAL, 12" Y @ 30' C-C			83.6			
105+32.25	106+54.25	LEFT	DBL, 4" Y 11" C-C	244.0					
105+32.25	106+54.25	RIGHT	LANE LINE		122.0				
105+42.25		CL	LEFT TURN ONLY						36.4
107+44.23	112+43.63	CL - LT	MEDIAN	1997.6					
107+44.23	112+43.63	CL - LT	DIAGONAL, 12" Y @ 30' C-C			188.8			
107+47.43	109+04.23	LEFT	LANE LINE		156.8				
108+94.23		LEFT	RIGHT TURN ONLY						36.4
109+16.80		RIGHT	RAILROAD CROSSING					16.0	61.2
111+08.80		RIGHT	RAILROAD CROSSING					16.0	61.2
112+43.63	113+11.38	LEFT	DBL, 4" Y 11" C-C	135.6					
112+43.63	113+27.66	CL	LANE LINE		84.0				
112+53.63		LEFT	LEFT TURN ONLY						36.4
112+99.80		LT-RT	STOP BAR					24.0	
OMISSION - RAILROAD CROSSING									

FROM STATION	TO STATION	LEFT OR RIGHT	DESCRIPTION	4" YELLOW (ft)	6" WHITE (ft)	12" YELLOW (ft)	12" WHITE (ft)	24" WHITE (ft)	L & S WHITE (sq ft)
113+38.35	116+06.30	LEFT	DBL, 4" Y 11" C-C	535.8					
113+54.57	116+06.30	CL	LANE LINE		251.7				
113+75.30		LEFT	STOP BAR					12.0	
115+64.30		LEFT	LEFT TURN ONLY						36.4
115+66.30		LEFT	RAILROAD CROSSING					16.0	61.2
116+06.10	117+74.75	RIGHT	6' SKIP - 2' DASH		42.0				
116+79.23	118+75.40	LEFT	MEDIAN	784.8					
116+79.23	118+75.40	LEFT	DIAGONAL, 12" Y @ 30' C-C			37.8			
116+83.00	118+17.60	LEFT	LANE LINE		134.6				
117+14.25	118+75.40	CL	6' SKIP - 2' DASH		40.0				
117+74.75	120+55.00	RIGHT	LANE LINE		280.3				
117+84.75		RIGHT	RIGHT TURN ONLY						36.4
115+66.30		LEFT	RAILROAD CROSSING					16.0	61.2
118+07.60		LEFT	RIGHT TURN ONLY						36.4
118+17.60	119+76.76	LEFT	6' SKIP - 2' DASH		40.0				
118+75.40	120+55.00	LEFT	DBL, 4" Y 11" C-C	359.2					
118+75.40	120+55.00	CL	LANE LINE		179.6				
118+85.40		LEFT	LEFT TURN ONLY						36.4
119+88.90		RIGHT	RIGHT TURN ONLY						36.4
120+47.20	120+57.00	LT-RT	STOP BAR					43.6	
122+17.16	122+20.53	LT-RT	STOP BAR					28.4	
122+19.16	123+63.00	CL	DBL, 4" Y 11" C-C	287.6					
122+20.61	123+63.00	LEFT	LANE LINE		142.4				
122+54.50		LEFT	LEFT TURN ONLY						36.4
124+20.00	124+77.20	LEFT	LANE LINE		57.2				
124+20.00	126+68.50	CL-LT	DBL, 4" Y 11" C-C	497.0					
124+67.20		LEFT	LEFT TURN ONLY						36.4
124+77.20	125+74.20	LEFT	6' SKIP - 2' DASH		24.0				
124+77.20	125+74.20	CL	6' SKIP - 2' DASH		24.0				
125+74.20	126+68.50	CL	LANE LINE		94.3				
125+84.20		LEFT	LEFT TURN ONLY						36.4
127+70.50	128+79.25	LEFT	LANE LINE		108.8				
127+70.50	129+88.80	CL	DBL, 4" Y 11" C-C	436.6					
128+69.25			LEFT TURN ONLY						36.4
128+79.25	129+88.80	RIGHT	6' SKIP - 2' DASH		28.0				
128+79.25	129+88.80	RIGHT	6' SKIP - 2' DASH		28.0				
TOTAL GROOVED THERMOPLASTIC PAVEMENT MARKINGS				12216.0	2422.9	447.9	57.4	201.0	754.4
						505.3			

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 20 40

LakeCounty Division of Transportation

ELA ROAD RESURFACING

QUANTITY SCHEDULES

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	21	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

Exhibit 5

Exhibit 4

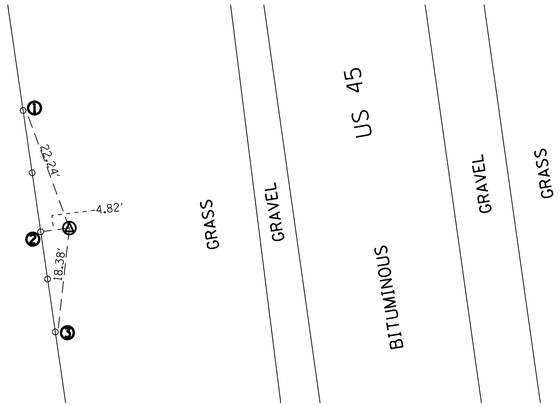
INTERSECTION COORDINATE TABLE		
STATION EQUATION	N	E
℄ WASHINGTON STREET STA. 63+35.65 = ℄ HAINESVILLE ROAD STA. 44+47.20	2072806.316	1055967.886
℄ WASHINGTON STREET STA. 94+74.74= ℄ LAKESIDE DRIVE STA. 10+00.00	2072810.099	1059106.959
℄ WASHINGTON STREET STA. 103+16.50 = ℄ HARYAN WAY STA. 10+00.00	2072822.465	1059948.543

HAINESVILLE ROAD COORDINATE TABLE				
	DESCRIPTION	ALIGNMENT POINT	N	E
HAINESVILLE ROAD	CURVE HAIN_2	PC 39+67.30	2072339.615	1056068.016
		PI 42+34.03	2072586.224	1055966.382
		PT 44+93.84	2072852.955	1055967.219
	BEGIN RECONSTRUCTION	43+61.74	2072721.051	1055973.329
	END RECONSTRUCTION	45+68.88	2072927.991	1055967.454

LAKESIDE DRIVE COORDINATE TABLE				
	DESCRIPTION	ALIGNMENT POINT	N	E
LAKESIDE DRIVE		10+00.00	2072810.099	1059106.959
	END RESURFACING	14+40.36	2073250.456	1059109.241

WASHINGTON STREET COORDINATE TABLE				
	DESCRIPTION	ALIGNMENT POINT	N	E
WASHINGTON STREET	BEGIN RECONSTRUCTION	50+61.60	2072804.687	1054693.824
		PI 63+35.65	2072806.316	1055967.894
		PI 76+54.48	2072813.295	1057286.701
	CURVE WASH_4	PC 96+86.71	2072809.727	1059318.929
		PI 100+63.26	2072809.066	1059695.485
		PRC 104+39.65	2072828.191	1060071.555
	CURVE WASH_5	PRC 104+39.65	2072828.191	1060071.555
		PI 109+24.62	2072852.826	1060555.902
		PT 114+09.34	2072850.648	1061040.860
	END RECONSTRUCTION	104+75.00	2072829.834	1060106.870

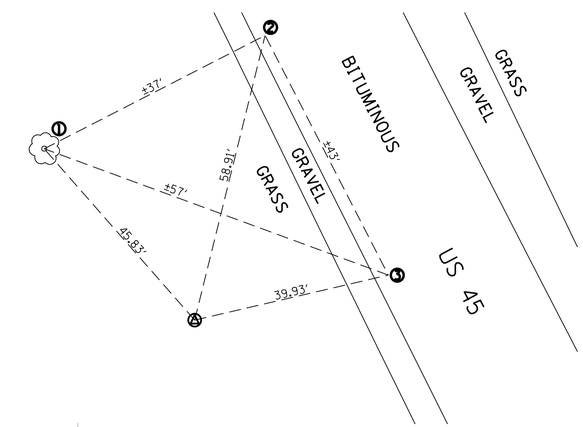
Exhibit 6



N

- IRC CPT
- 1 MAG NAIL IN FENCE POST
- 2 MAG NAIL IN FENCE POST
- 3 MAG NAIL IN FENCE POST

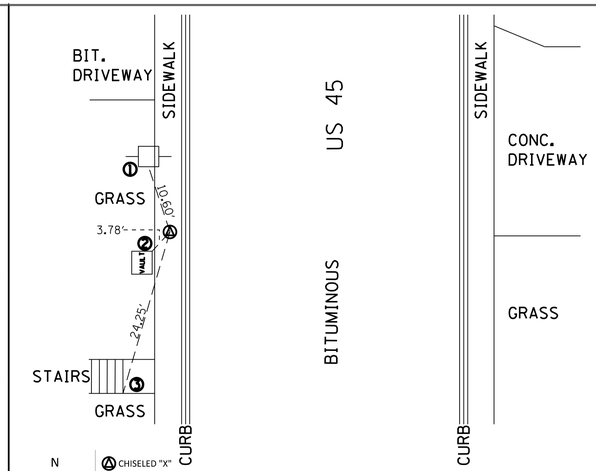
DESCRIPTION:
CONTROL POINT 102 IS AN IRON ROD CAP LOCATED WEST OF ROUTE 45 NEAR THE FENCE LINE.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2102521.020 EASTING....: 1071706.350
ELEVATION: 745.710



N

- IRC CPT
- 1 CENTERLINE OF 12" ϕ TREE
- 2 MAG NAIL ± 0.3' EAST OF WEST EDGE OF PAVEMENT OF ROUTE 45
- 3 MAG NAIL ± 0.3' EAST OF WEST EDGE OF PAVEMENT OF ROUTE 45

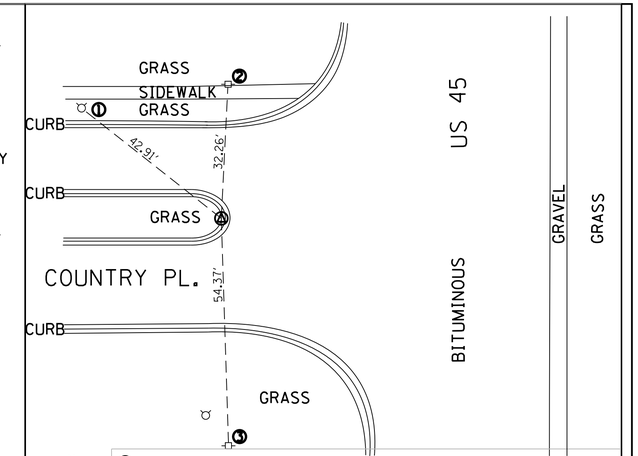
DESCRIPTION:
CONTROL POINT 103 IS AN IRON ROD CAP LOCATED WEST OF ROUTE 45, ±400' SOUTH OF 39202 N. ROUTE 45.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2100203.650 EASTING....: 1072193.325
ELEVATION: 738.670



N

- CHISELED "X"
- 1 MAG NAIL IN WOOD POWER POLE WEST OF WEST R.O.W. OF ROUTE 45, SOUTH OF CHURCH DRIVEWAY
- 2 NORTH-EAST CORNER OF TRAFFIC CONTROL VAULT WEST OF WEST R.O.W. OF ROUTE 45 IN FRONT OF CHURCH
- 3 SOUTH EAST CORNER OF STAIR LANDING TO ENTRANCE WALK OF CHURCH

DESCRIPTION:
CONTROL POINT 104 IS A X CHISELED INTO THE SIDEWALK IN FRONT OF THE EAST SIDE OF THE MILLBURN CONGREGATIONAL CHURCH AT THE INTERSECTION OF W. GRASS LAKE RD. AND US 45.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2097836.734 EASTING....: 1073209.520
ELEVATION: 744.330

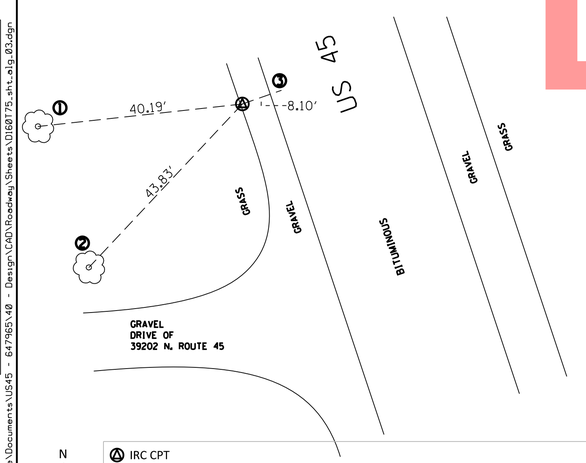


N

- CHISELED "X"
- 1 CENTERLINE OF HYDRANT ON NORTH PARKWAY OF COUNTRY PL., WEST OF ROUTE 45
- 2 PK NAIL IN POWER POLE NORTH OF NORTH SIDEWALK ON COUNTRY PL., WEST OF WEST R.O.W. OF ROUTE 45
- 3 PK NAIL IN POWER POLE SOUTH OF SOUTH R.O.W. OF COUNTRY PL., WEST OF WEST R.O.W. OF ROUTE 45

DESCRIPTION:
CONTROL POINT 106 IS A X CHISELED INTO THE TOP OF THE CURB ON THE EASTERN SIDE OF THE MEDIAN AT THE INTERSECTION OF COUNTRY PL. AND US 45.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2094094.830 EASTING....: 1073158.950
ELEVATION: 730.500

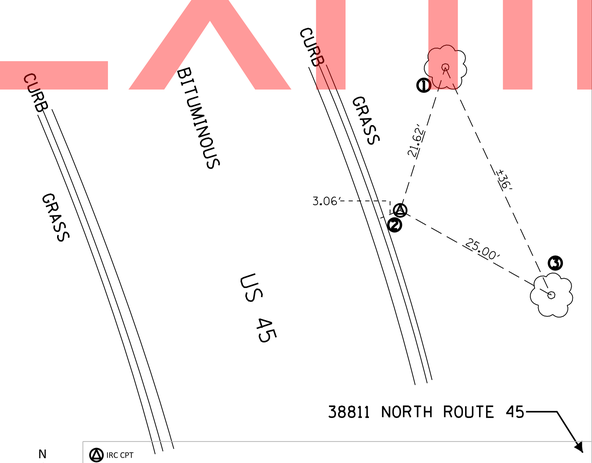
Exhibit 6



N

- IRC CPT
- 1 12" ϕ TREE AT ±NORTH-EAST CORNER OF PROPERTY, WEST OF WEST R.O.W. OF ROUTE 45
- 2 12" ϕ TREE AT NORTH EDGE OF DRIVE, WEST OF WEST R.O.W. OF ROUTE 45
- 3 MAG NAIL AT ±0.2' EAST OF WEST EDGE OF PAVEMENT OF ROUTE 45

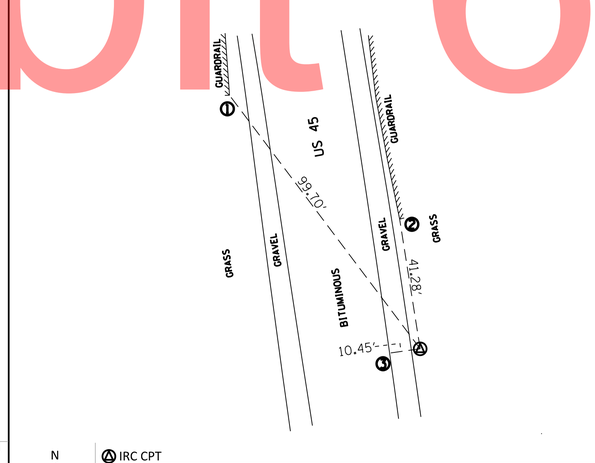
DESCRIPTION:
CONTROL POINT 122 IS AN IRON ROD CAP LOCATED WEST OF ROUTE 45, NORTH OF GRAVEL DRIVE OF 39202 N. ROUTE 45.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2100602.690 EASTING....: 1072058.305
ELEVATION: 739.170



N

- IRC CPT
- 1 MAG NAIL IN SOUTH FACE OF 24" ϕ TREE AT ± NORTH PROPERTY LINE OF 38811 NORTH ROUTE 45, EAST OF EAST R.O.W. OF ROUTE 45
- 2 CUT CROSS ON CURB ± 103' NORTH OF CENTERLINE OF DRIVE FOR 38811 WEST ROUTE 45
- 3 CENTERLINE 12" ϕ TREE EAST OF EAST R.O.W. OF ROUTE 45, IN FRONT YARD OF 38811 ROUTE 45

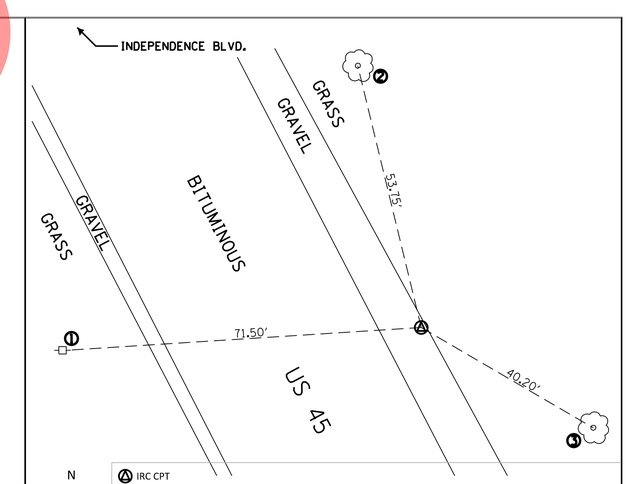
DESCRIPTION:
CONTROL POINT 123 IS AN IRON ROD CAP LOCATED ON THE EAST SIDE OF ROUTE 45, NORTH OF 3811 NORTH ROUTE 45.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2098372.119 EASTING....: 1073197.937
ELEVATION: 742.020



N

- IRC CPT
- 1 SOUTH END OF GUARD RAIL WEST OF WEST R.O.W. OF ROUTE 45
- 2 SOUTH END OF GUARD RAIL EAST OF EAST R.O.W. OF ROUTE 45
- 3 MAG NAIL AT ±0.2' WEST OF EAST EDGE OF PAVEMENT OF ROUTE 45

DESCRIPTION:
CONTROL POINT 127 IS AN IRON ROD CAP LOCATED EAST OF ROUTE 45.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2101582.631 EASTING....: 1071924.809
ELEVATION: 733.790



N

- IRC CPT
- 1 EAST FACE OF SECOND POWER POLE SOUTH OF INDEPENDENCE BLVD., WEST OF WEST R.O.W. OF ROUTE 45
- 2 24" ϕ TWIN TREE EAST OF EAST R.O.W. OF ROUTE 45
- 3 10" ϕ TREE EAST OF EAST R.O.W. OF ROUTE 45

DESCRIPTION:
CONTROL POINT 128 IS AN IRON ROD CAP LOCATED ON THE EAST SIDE OF ROUTE 45, SOUTH OF THE INTERSECTION OF INDEPENDENCE BLVD AND ROUTE 45.
MONUMENT COORDINATES, SPCS (NAD83, usFT), ILLINOIS EAST - 1201:
NORTHING..: 2099195.740 EASTING....: 1072796.070
ELEVATION: 743.330

PLAN		BY	DATE
SURVEYED			
PLOTTED			
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
CADD FILE NAME			
NOTE BOOK			
NO.			

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
BM. NOTED			
STRUCTURE NOTATNS CHKD			
NOTE BOOK			
NO.			

FILE NAME = pw:\\tapla02pwint01.parsons.com:Illinois State\Documents\US45 - 647965\40 - Design\CAD\Roadway\Sheets\D160775_sht_alg_03.dgn

USER NAME = 35361	DESIGNED SQ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN SQ	REVISED	
PLOT SCALE = 20.0000 ' / in.	CHECKED BN	REVISED	
PLOT DATE = 12/14/2016	DATE JUNE 12, 2015	REVISED	

ALIGNMENT, TIES AND BENCHMARKS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	449	36
		CONTRACT NO. 60T75		
	ILLINOIS	FED. AID PROJECT		

LCDOT Resurfacing - milling and repairs sheets. Plans drawn from aerial and historical records. Same base sheets used for proposed work and pavement markings.

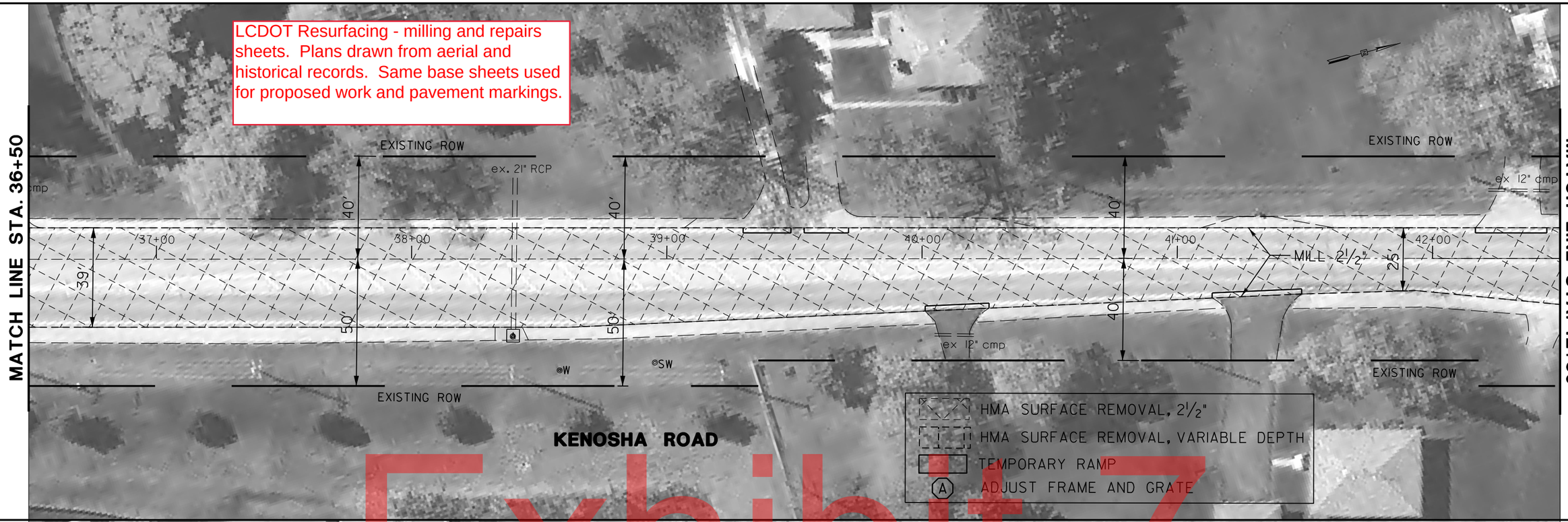


Exhibit 7

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdsxs 3/10/2016

SCALES HORIZ. 0 20 40

KENOSHA ROAD RESURFACING

LakeCounty Division of Transportation

REMOVAL/REPAIR SHEET

STA. 36+50.00 TO 48+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH53	125	15-00999-20-RS	60	128

FILE NAME: U:\Design\Shrestha\15-00999-18-RS - Kenosha Rd (Green Bay to 21st St)\B-00999$Sheet_0060_Removal_Sheet.dgn

LCDOT 2 lane road Plan and Profile sheet - 3R project.

Note the drainage labels.

Note the property owner information.

LCDOT prefers to include existing & proposed; removal; drainage; pavement markings etc... all on the same plan sheet.

Include the main longitudinal storm sewer and culverts on the profile

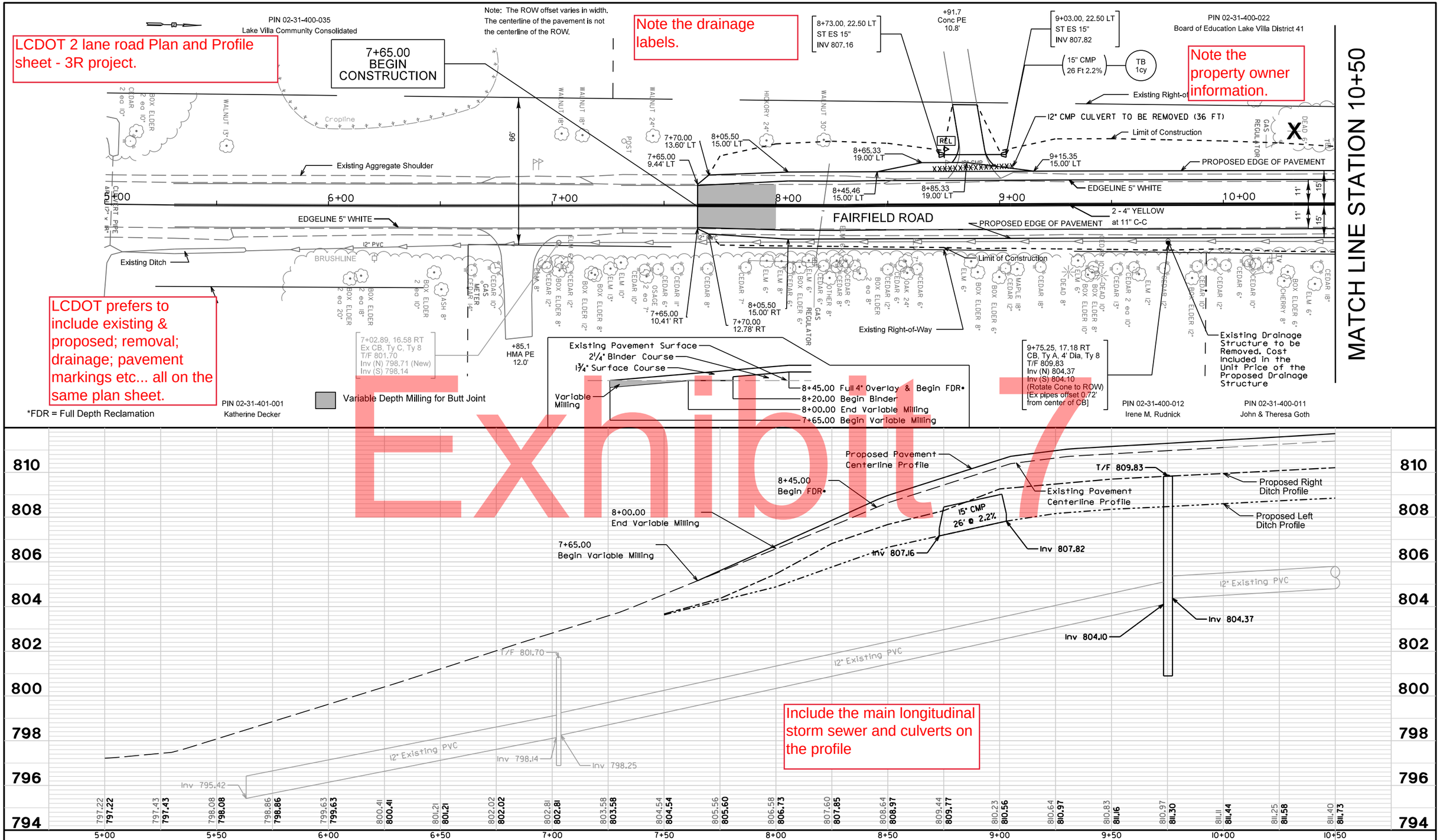


Exhibit 7

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

SCALES HORIZ. 0 20 40 VERT 0 2

LakeCounty Division of Transportation

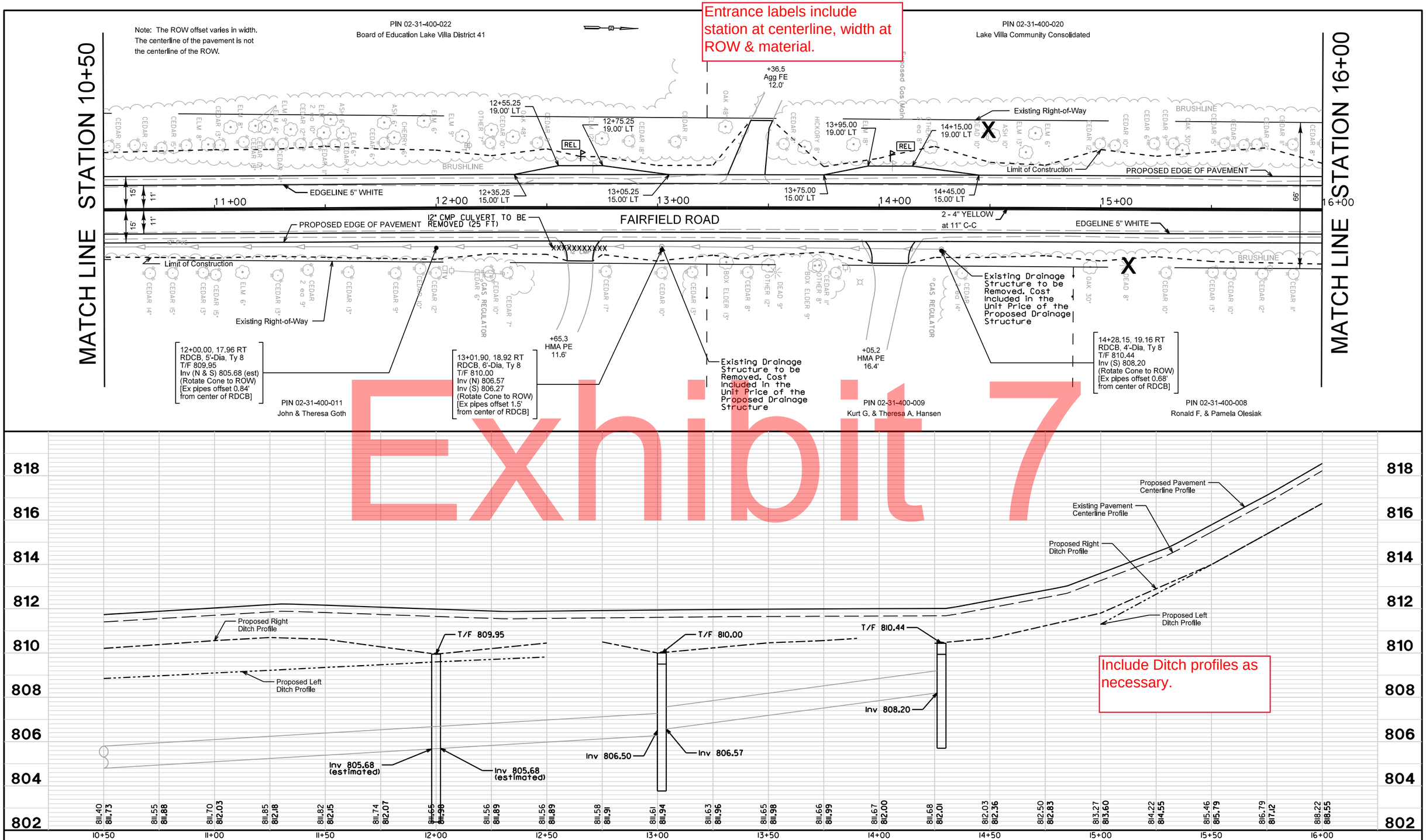
FAIRFIELD ROAD - FDR

PLAN & PROFILE STA. 5+00.00 TO STA. 10+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	24	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 2.dgn

Entrance labels include station at centerline, width at ROW & material.



Include Ditch profiles as necessary.

Exhibit 7

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

SCALES
VERT. 2 0
HORIZ. 0 20 40

LakeCounty
Division of Transportation

FAIRFIELD ROAD - FDR

PLAN & PROFILE STA. 10+50.00 TO STA. 16+00.00

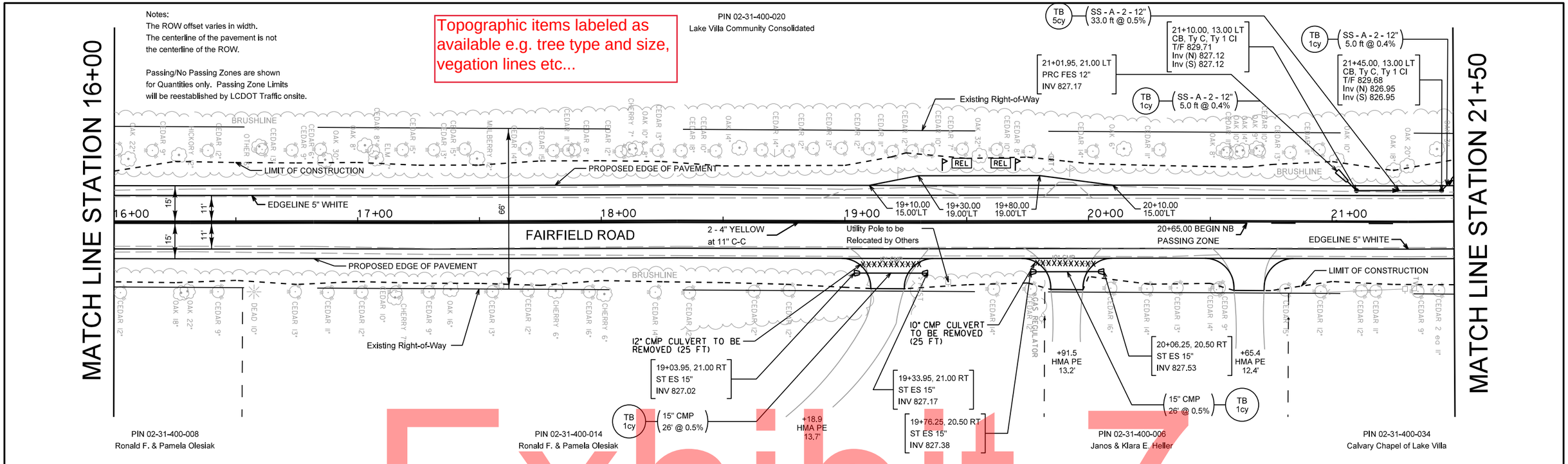
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	25	194

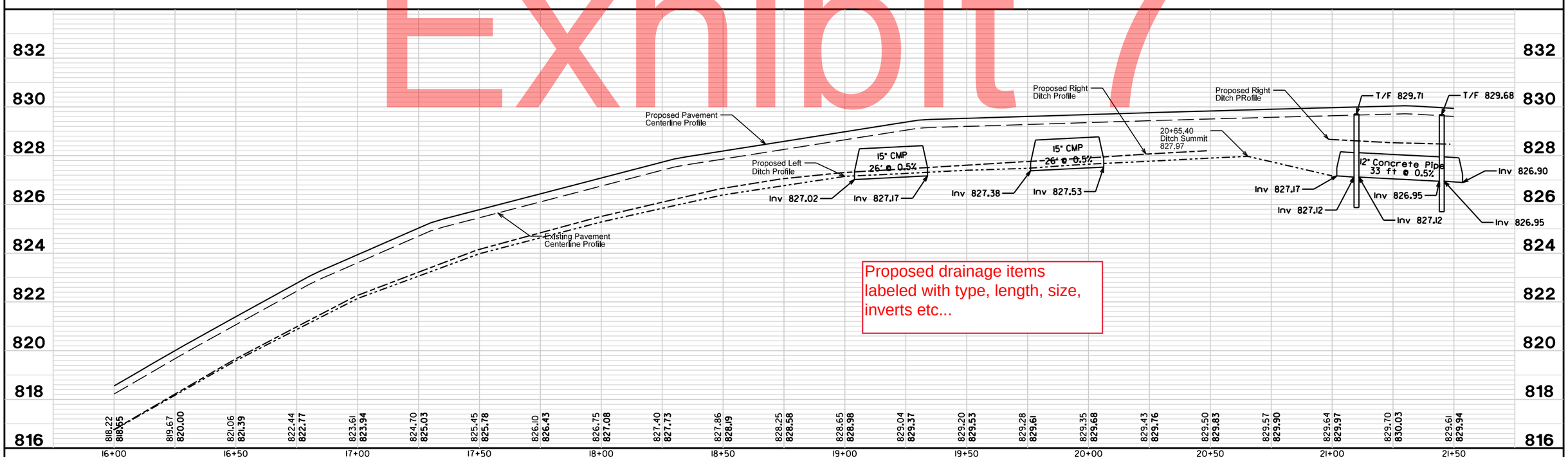
FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 3.dgn

Notes:
The ROW offset varies in width.
The centerline of the pavement is not the centerline of the ROW.

Passing/No Passing Zones are shown for Quantities only. Passing Zone Limits will be reestablished by LCDOT Traffic onsite.

Topographic items labeled as available e.g. tree type and size, vegation lines etc...





Proposed drainage items labeled with type, length, size, inverts etc...

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

VERT 2 0 — SCALES HORIZ. 0 20 40

LakeCounty
Division of Transportation

FAIRFIELD ROAD - FDR
PLAN & PROFILE STA. 16+00.00 TO STA. 21+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	26	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 4.dgn

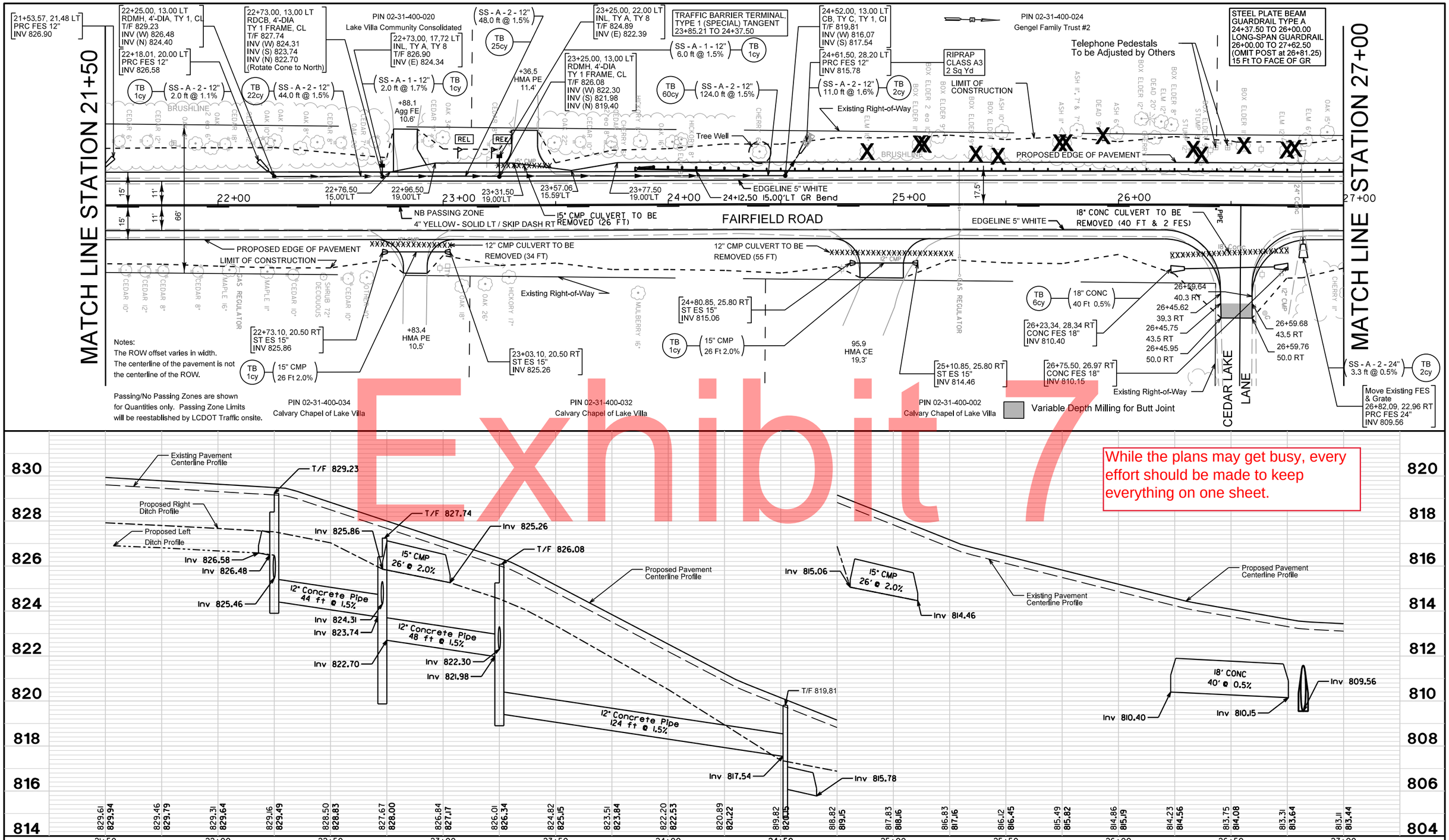


Exhibit 7

While the plans may get busy, every effort should be made to keep everything on one sheet.

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

SCALES
VERT 2 0
HORIZ. 0 20 40

LakeCounty
Division of Transportation

FAIRFIELD ROAD - FDR
PLAN & PROFILE STA. 21+50.00 TO STA. 27+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	27	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 5.dgn

Notes:
The ROW offset varies in width.
The centerline of the pavement is not the centerline of the ROW.

Passing/No Passing Zones are shown for Quantities only. Passing Zone Limits will be reestablished by LCDOT Traffic onsite.

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 27+62.50 TO 28+14.85

Include Trench backfill with pipe labels.

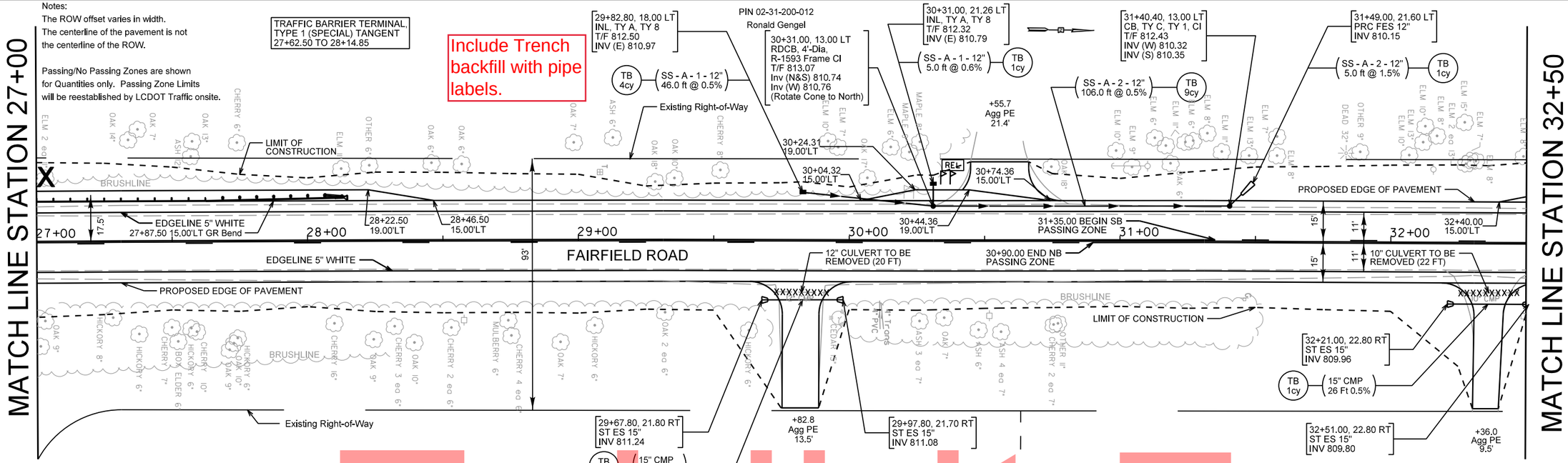
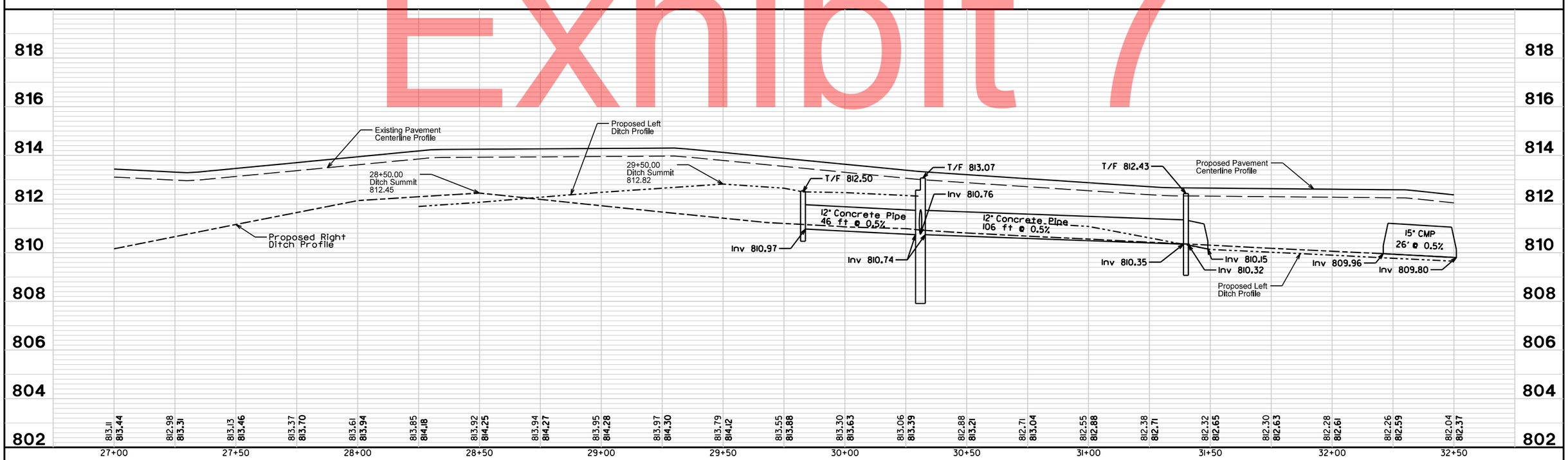


Exhibit 7



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

VERT 2 0

SCALES
HORIZ. 0 20 40

LakeCounty
Division of Transportation

FAIRFIELD ROAD - FDR

PLAN & PROFILE STA. 27+00.00 TO STA. 32+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	28	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 6.dgn

Guardrail & Terrminal Labels

MATCH LINE STATION 32+50

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 33+35.15 TO 33+87.50

STEEL PLATE BEAM GUARDRAIL TYPE A 33+87.50 TO 36+00.00 15 Ft TO FACE OF GR

PIN 02-31-200-012 Ronald Gengel

34+68.61, 27.00 LT MH, TY A, 4'-DIA TY 1 FRAME, CL w/ 6" PRECAST CONCRETE RISER T/F 804.40 INV (E & W) 797.40 (estimated) ROTATE CONE NORTH

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 36+00.00 TO 36+52.33

37+50.00, 22.00 LT CB, TY C, TY 8 T/F 810.75 INV (N) 808.73

SS - A - 2 - 12" 118 ft @ 1.0%

36+25.00, 24.00 LT PRC FES 12" INV 807.50

Existing Right-of-Way

32+60.00 19.00'LT

32+80.00 19.00'LT

33+06.39 15.48'LT

33+27.50 19.00'LT

36+25.00 19.00'LT

37+18.50 19.00'LT

36+81.00 15.50'LT

36+16.00 17.50'LT

LIMIT OF CONSTRUCTION

33+62.50 15.00'LT GR Bend

EDGELINE 5" WHITE

36+25.00 15.00'LT GR Bend

36+60.00 19.00'LT

36+98.50 19.00'LT

37+48.50 15.00'LT

PROPOSED EDGE OF PAVEMENT

33+00 34+00 35+00 36+00 37+00 38+00

FAIRFIELD ROAD

SB PASSING ZONE 4" YELLOW - SOLID RT / SKIP DASH LT

EDGELINE 5" WHITE

PROPOSED EDGE OF PAVEMENT

LIMIT OF CONSTRUCTION

12" CULVERT TO BE REMOVED (24 FT)

Existing Right-of-Way

+03.0 Agg FE 13.5' (To Be Removed)

+08.9 Agg PE 16.9'

37+23.85, 22.00 RT ST ES 15" INV 810.30

36+93.85, 20.00 RT ST ES 15" INV 809.70

15" CMP 26 Ft 2.0%

TB 1cy

Existing Right-of-Way

34+68.96, 33.14 RT Ex MH, Ty A, Ty 1 Frame, CL T/F 803.43 Inv (E) 798.17 Inv (W) 797.69

Notes:
The ROW offset varies in width.
The centerline of the pavement is not the centerline of the ROW.

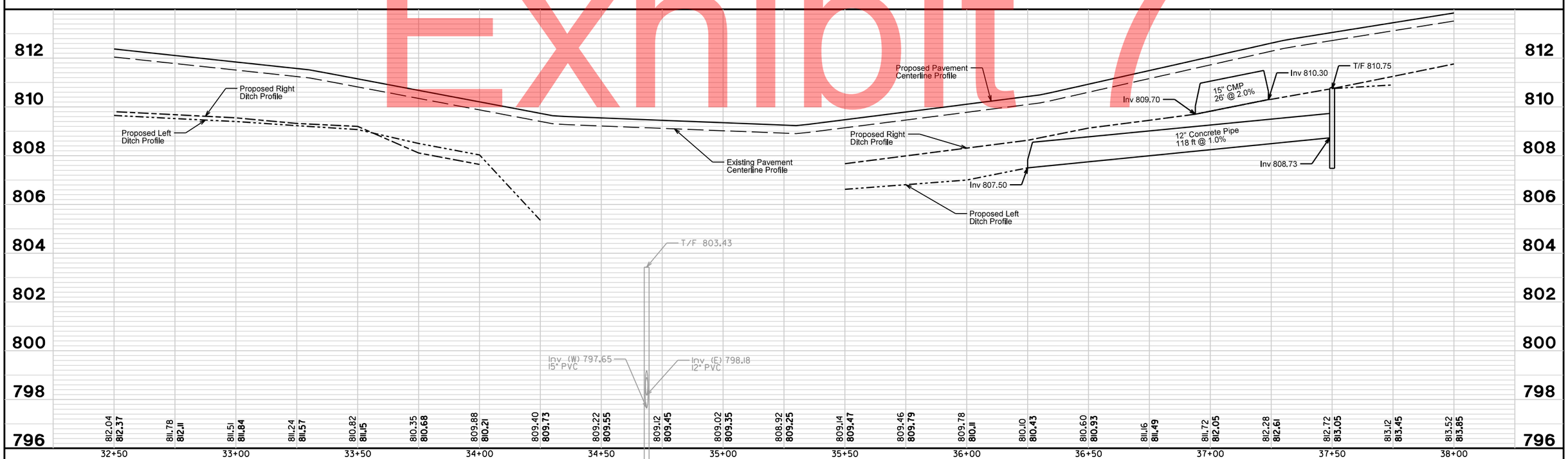
Passing/No Passing Zones are shown for Quantities only. Passing Zone Limits will be reestablished by LCDOT Traffic onsite.

PIN 02-31-202-005 Joseph & Virginia Menheer

PIN 02-31-200-023 Carolyn V. Kiesgen

MATCH LINE STATION 38+00

Exhibit 7



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

VERT 2 0

SCALES HORIZ. 0 20 40

LakeCounty Division of Transportation

FAIRFIELD ROAD - FDR

PLAN & PROFILE STA. 32+50.00 TO STA. 38+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	29	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 7.dgn

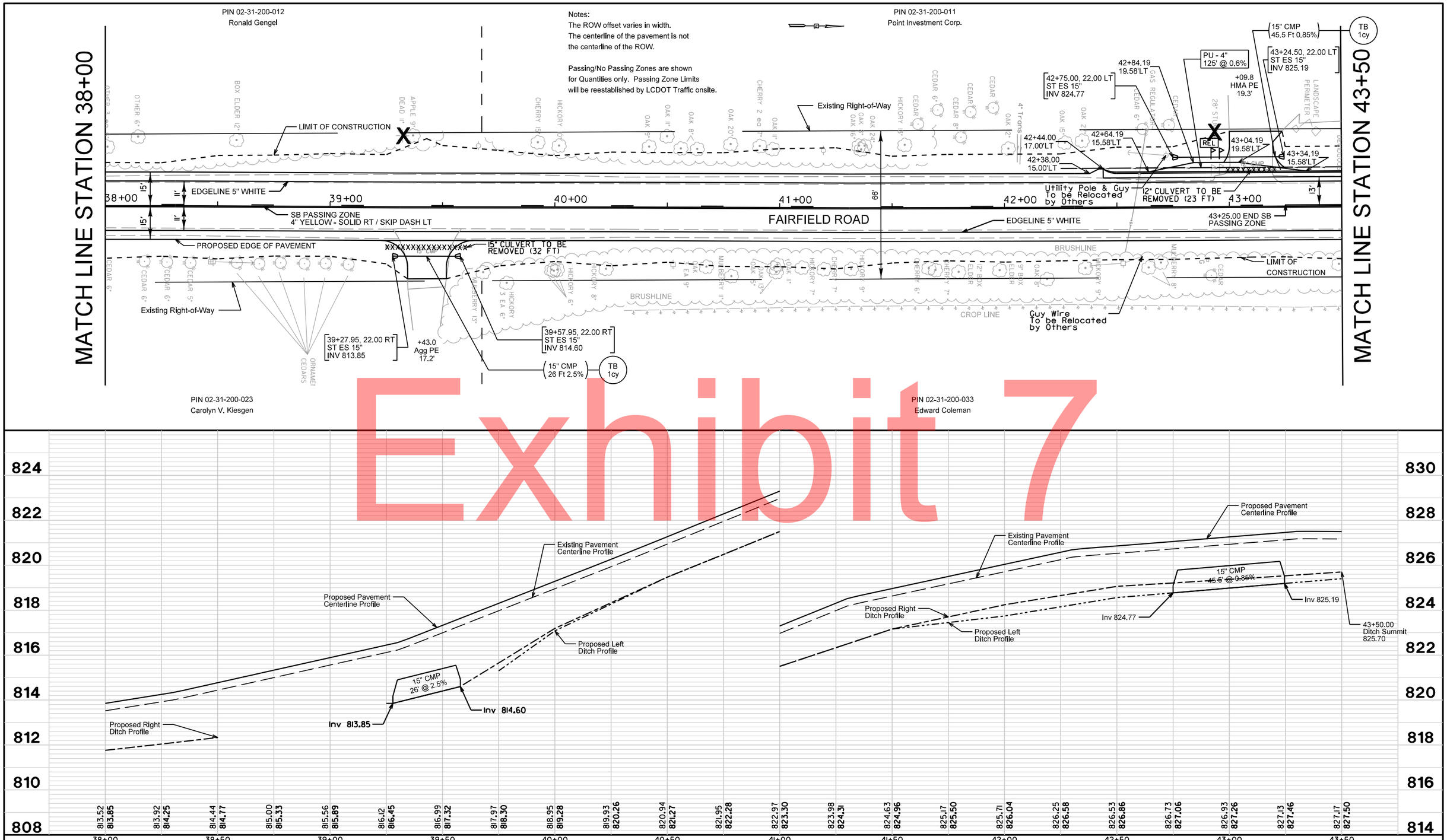


Exhibit 7

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

VERT 2 0

SCALES
HORIZ.
0 20 40

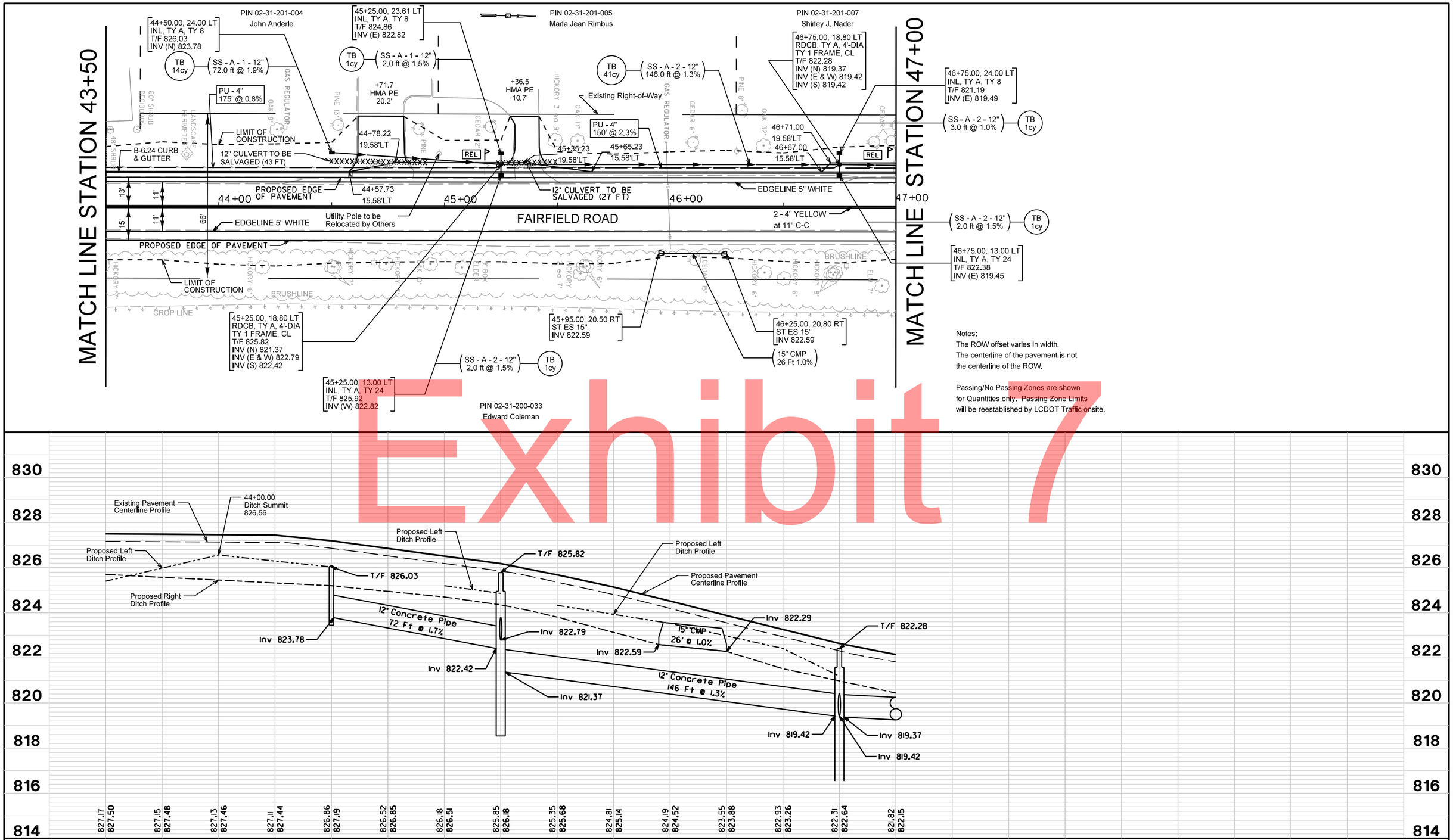
LakeCounty
Division of Transportation

FAIRFIELD ROAD - FDR

PLAN & PROFILE STA. 38+00.00 TO STA. 43+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	30	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 8.dgn



Notes:
The ROW offset varies in width.
The centerline of the pavement is not the centerline of the ROW.

Passing/No Passing Zones are shown for Quantities only. Passing Zone Limits will be reestablished by LCDOT Traffic onsite.

Exhibit 7

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

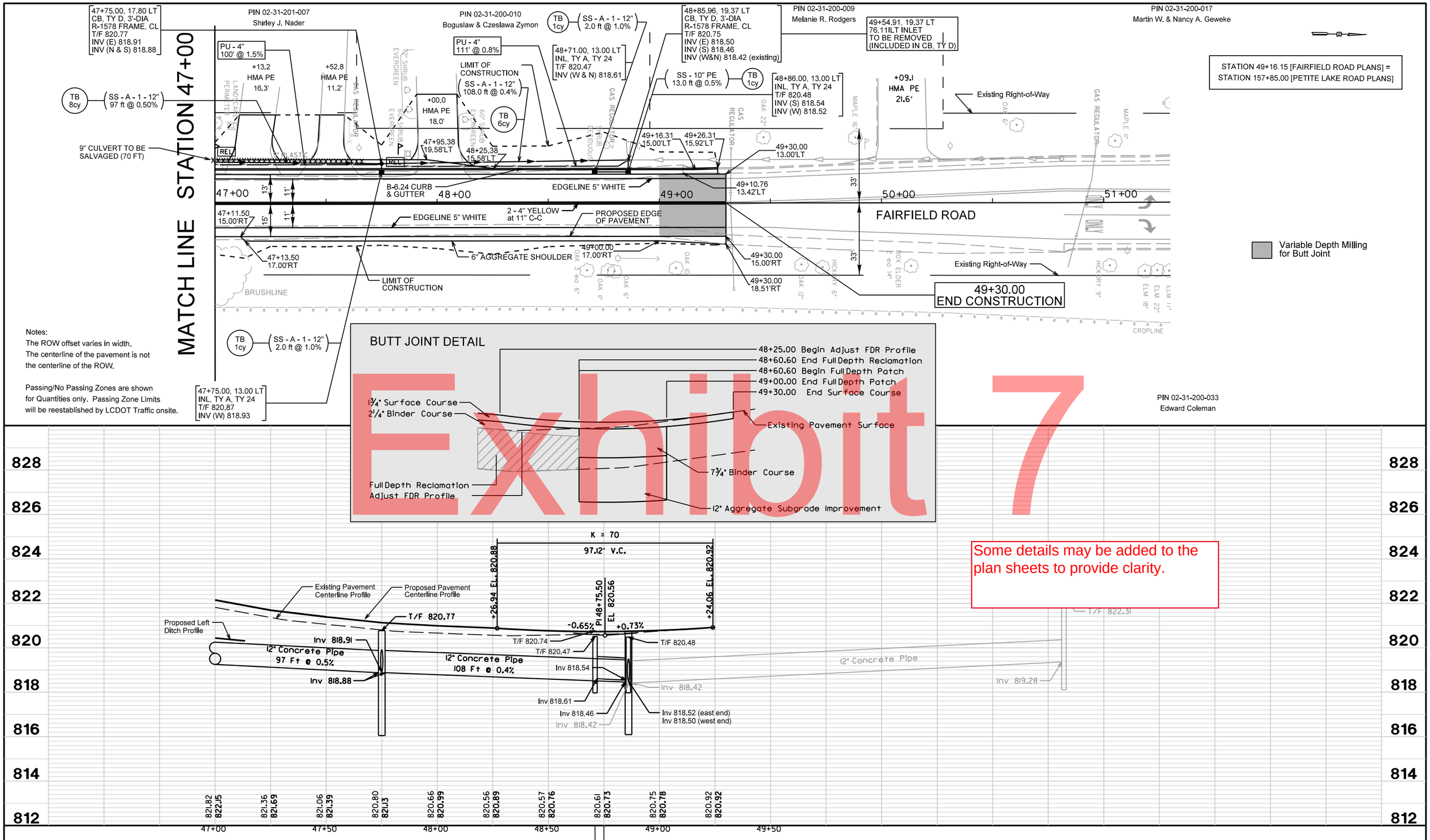
SCALES
VERT 2 0
HORIZ. 0 20 40

LakeCounty
Division of Transportation

FAIRFIELD ROAD - FDR
PLAN & PROFILE STA. 43+50.00 TO STA. 47+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	31	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 9.dgn



Notes:
The ROW offset varies in width.
The centerline of the pavement is not the centerline of the ROW.

Passing/No Passing Zones are shown for Quantities only. Passing Zone Limits will be reestablished by LCDOT Traffic onsite.

Exhibit 7

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

VERT 2 0 — SCALES HORIZ. 0 20 40

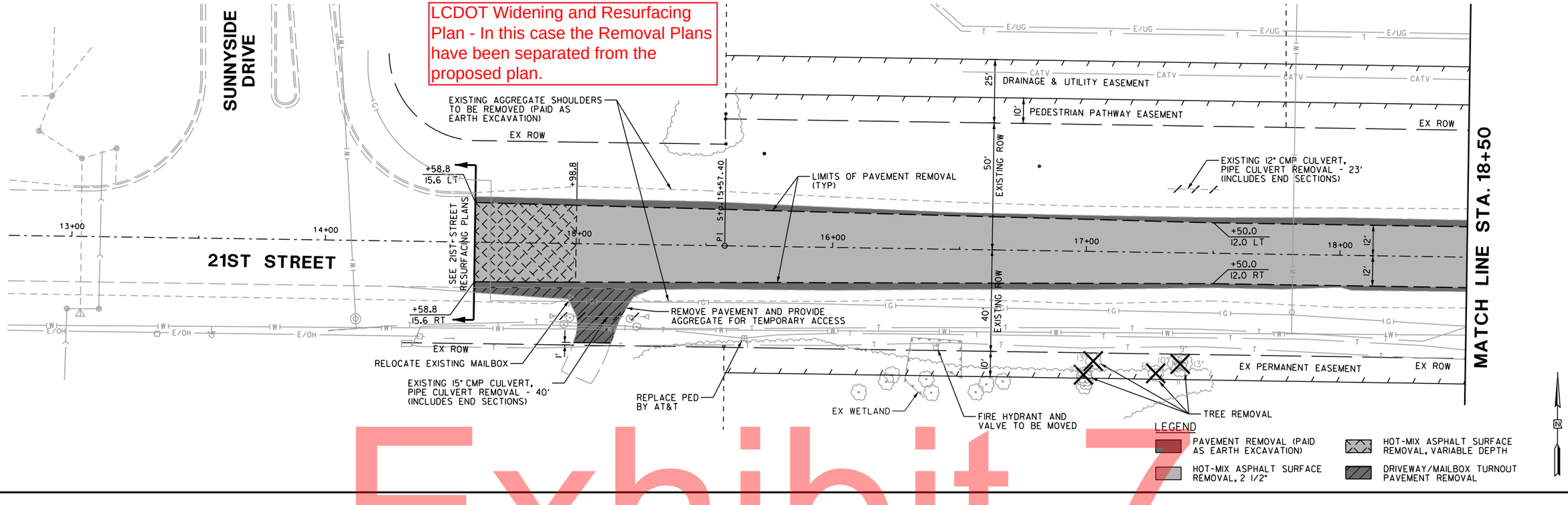
LakeCounty
Division of Transportation

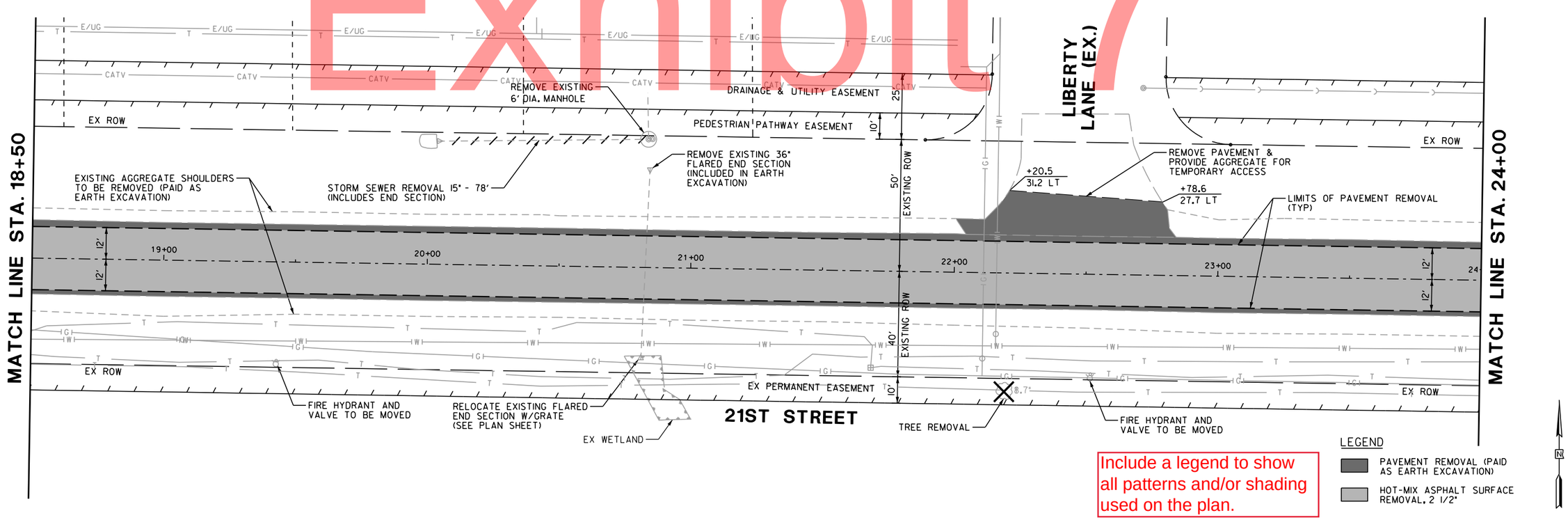
FAIRFIELD ROAD - FDR
PLAN & PROFILE STA. 47+00.00 TO STA. 49+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	32	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\Plan Profile 10.dgn

LCDOT Widening and Resurfacing Plan - In this case the Removal Plans have been separated from the proposed plan.





Include a legend to show all patterns and/or shading used on the plan.

Exhibit 7

REVISIONS / REMARKS						SCALES HORIZ.	21st STREET WIDENING	LakeCounty Division of Transportation	REMOVAL PLAN	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
NO.	DESCRIPTION	DATE	BY	SURVEYOR:					STA. 18+50.00 TO 24+00.00	CH67	146	15-00999-18-RS	27	128
		__/__/__		DSGNR/LIAISON:										
		__/__/__		PLOTTED BY:	khdl869l 3/14/2016	0 20 40								

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn

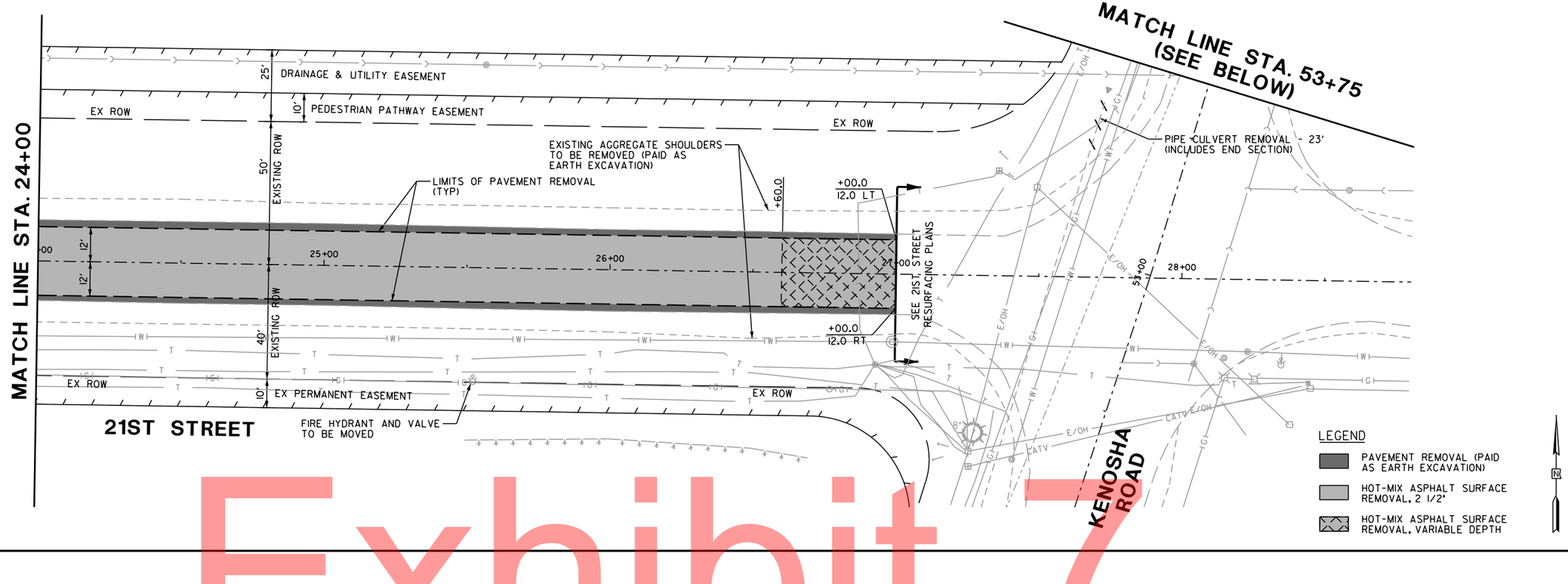
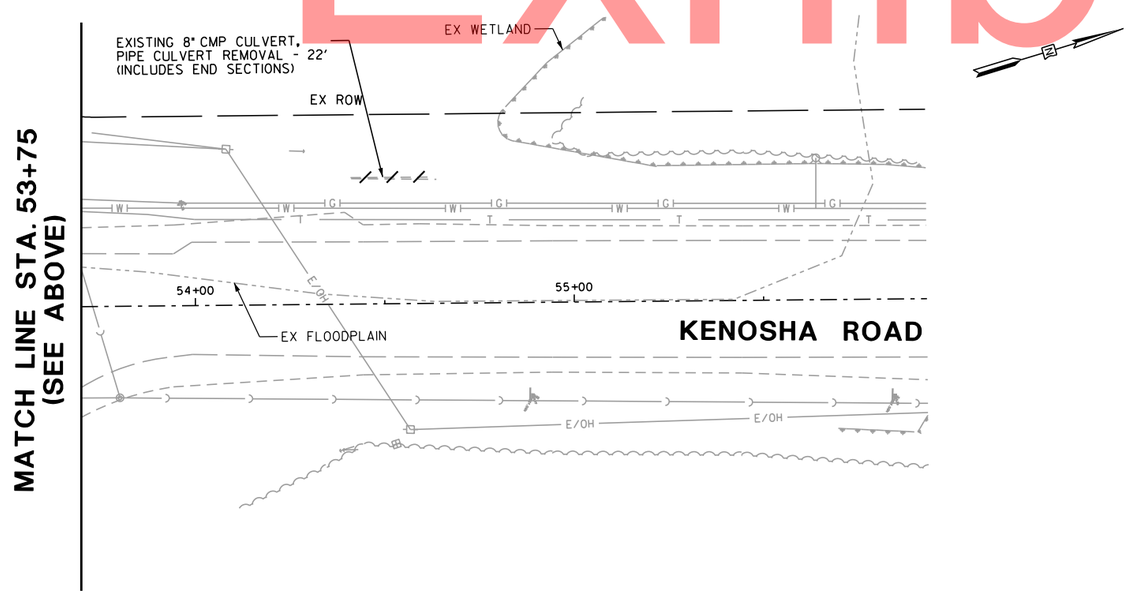
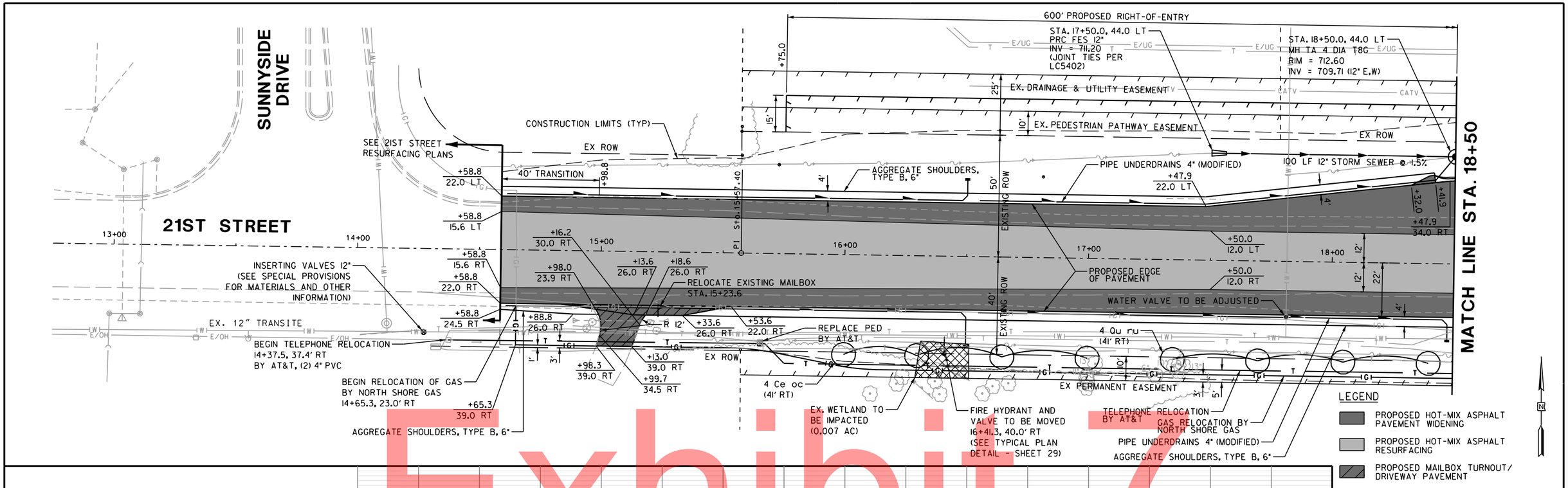


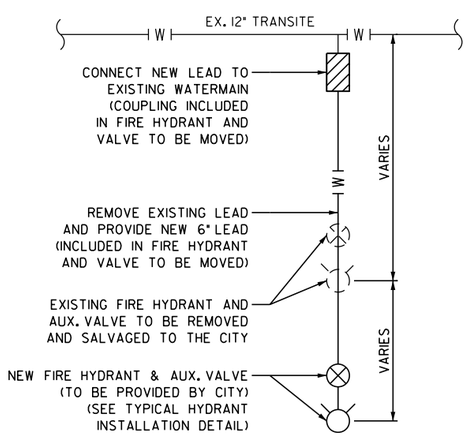
Exhibit 7



REVISIONS / REMARKS						SCALES HORIZ.	21st STREET WIDENING	LakeCounty Division of Transportation	REMOVAL PLAN	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	___/___	0 20 40			STA. 18+50.00 TO 24+00.00	CH67	146	15-00999-18-RS	28	128
		__/__/__		DSGNR/LIAISON:										
		__/__/__		PLOTTED BY:	khdl8691 3/14/2016									

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn





NOTE: SEE SPECIAL PROVISIONS FOR MATERIALS AND OTHER INFORMATION.

FIRE HYDRANT AND VALVE TO BE MOVED (TYPICAL PLAN)

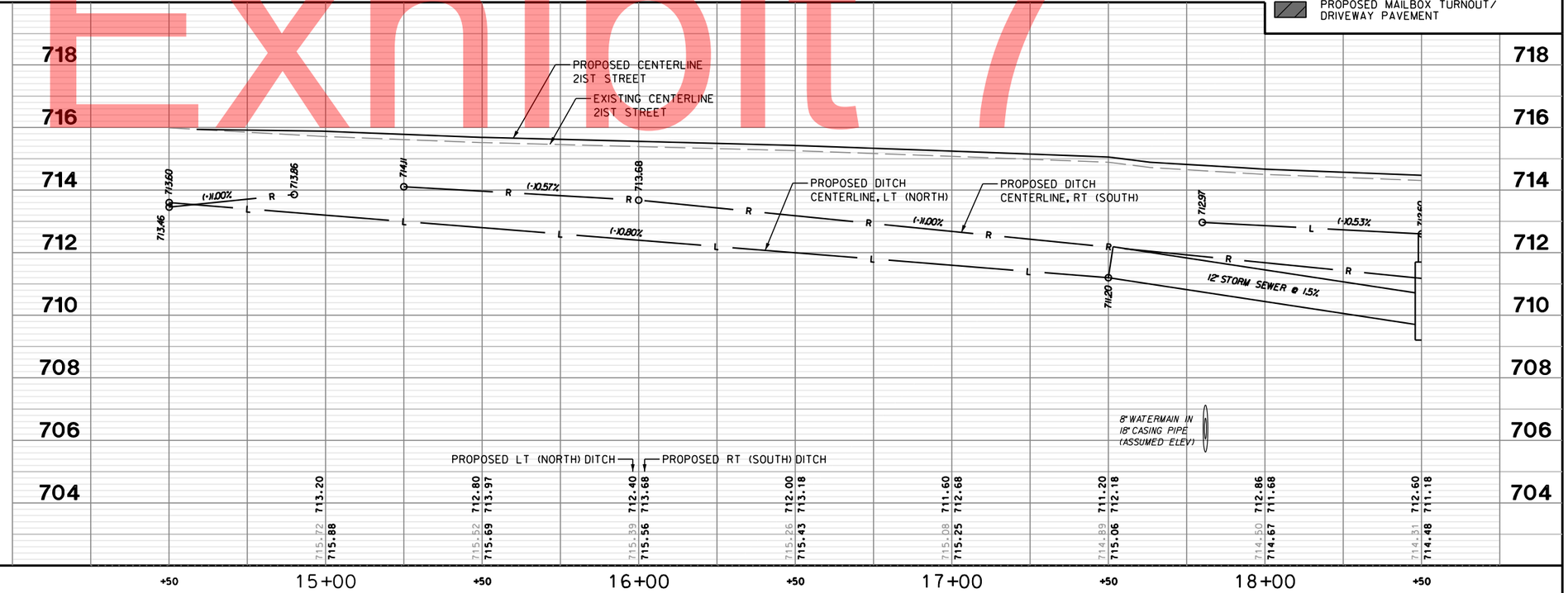


Exhibit 7

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY: khdl8691 3/10/2016	

SCALES HORIZ. 0 20 40 VERT 0 2

21st STREET WIDENING

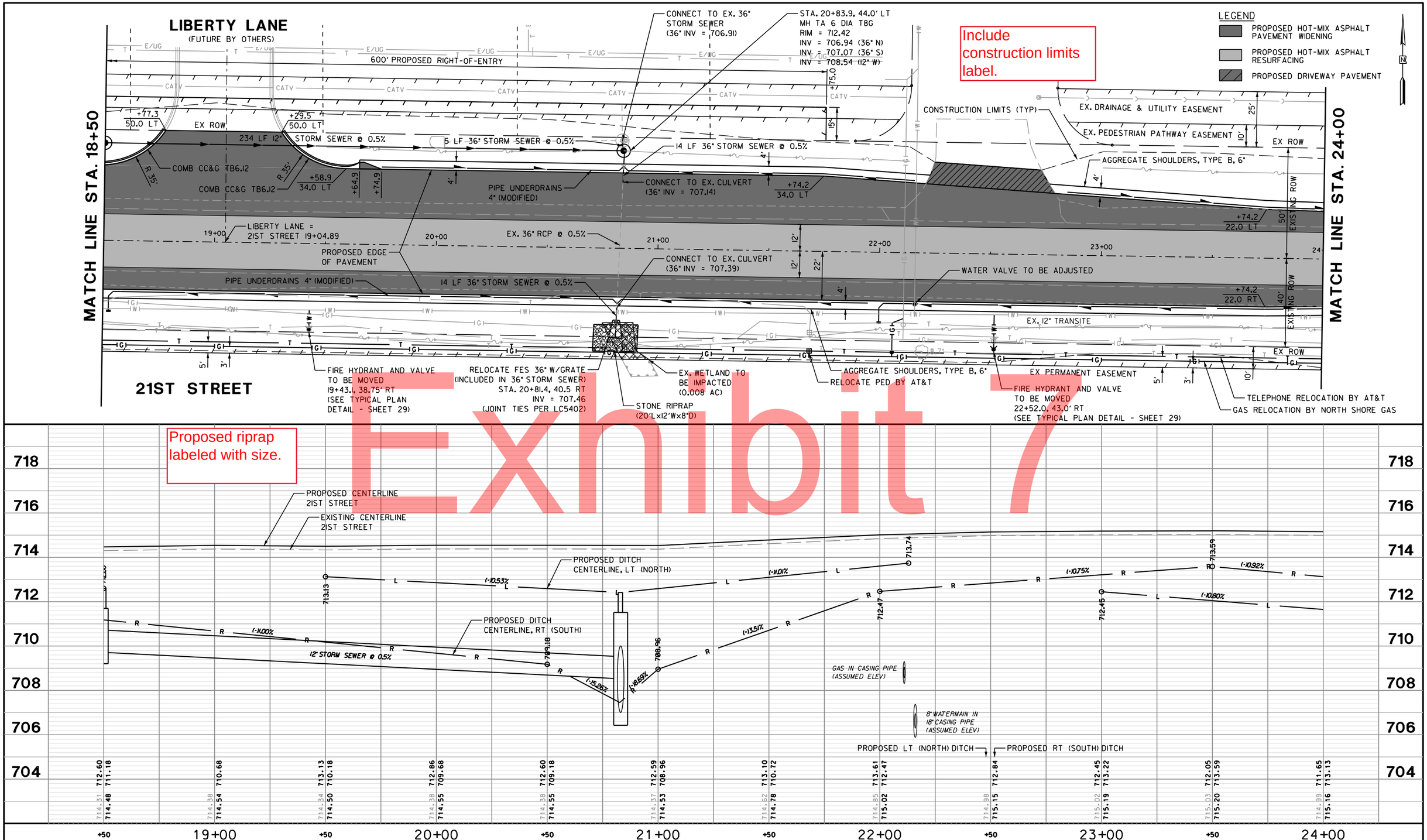
LakeCounty Division of Transportation

21ST STREET

PLAN & PROFILE STA. 14+50 TO STA. 18+50

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	29	128

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	
				DSGNR/LIAISON:	
				PLOTTED BY:	khdi8691 3/10/2016

SCALES HORIZ. 0 20 40 VERT 0 2

21st STREET WIDENING

LakeCounty Division of Transportation

21ST STREET

PLAN & PROFILE STA. 18+50 TO STA. 24+00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	30	128

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn

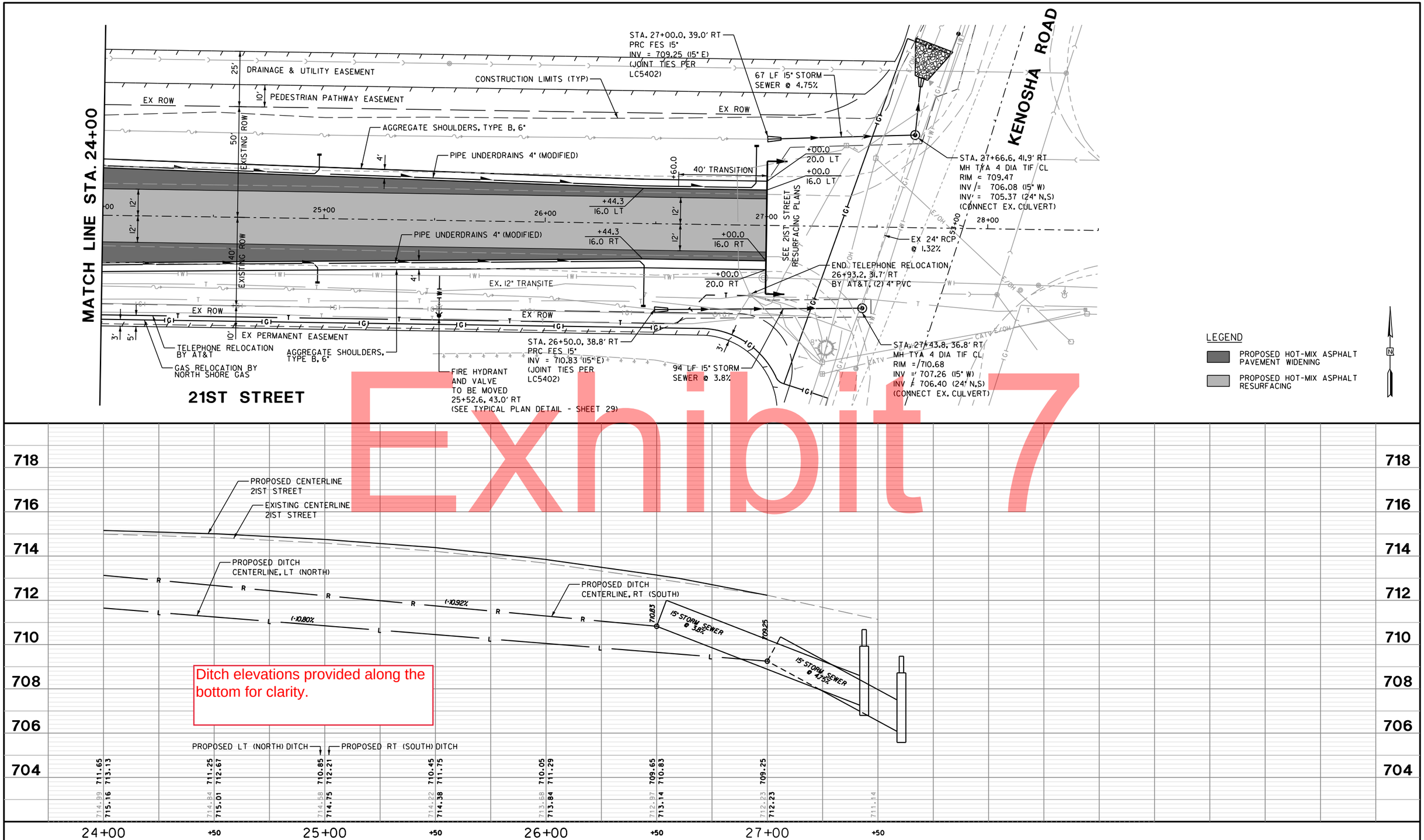


Exhibit 7

Ditch elevations provided along the bottom for clarity.

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	___/___
		__/__/__		DSGNR/LIAISON:	
		__/__/__		PLOTTED BY: khdl8691 3/10/2016	

SCALES: VERT. 2 0; HORIZ. 0 20 40

21st STREET WIDENING

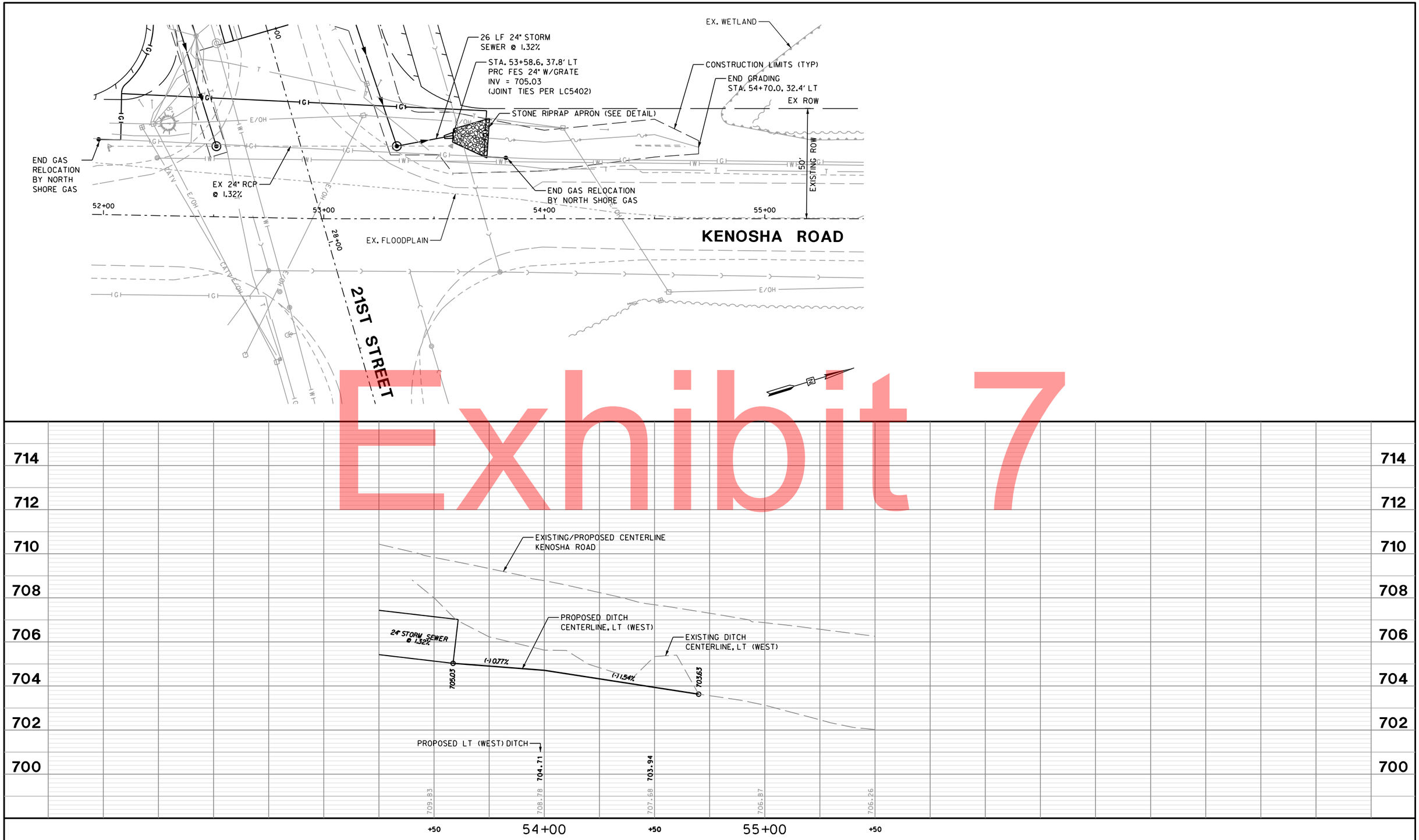
LakeCounty Division of Transportation

21ST STREET

PLAN & PROFILE STA. 24+00 TO STA. 27+00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	31	128

FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	___/___
		___/___/___	___	DSGNR/LIAISON:	___/___
		___/___/___	___	PLOTTED BY:	khdl8691 3/10/2016

VERT 2 0 — SCALES HORIZ. 0 20 40

21st STREET WIDENING

LakeCounty Division of Transportation

KENOSHA ROAD

PLAN & PROFILE STA. 52+00 TO STA. 55+10

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH67	146	15-00999-18-RS	32	128

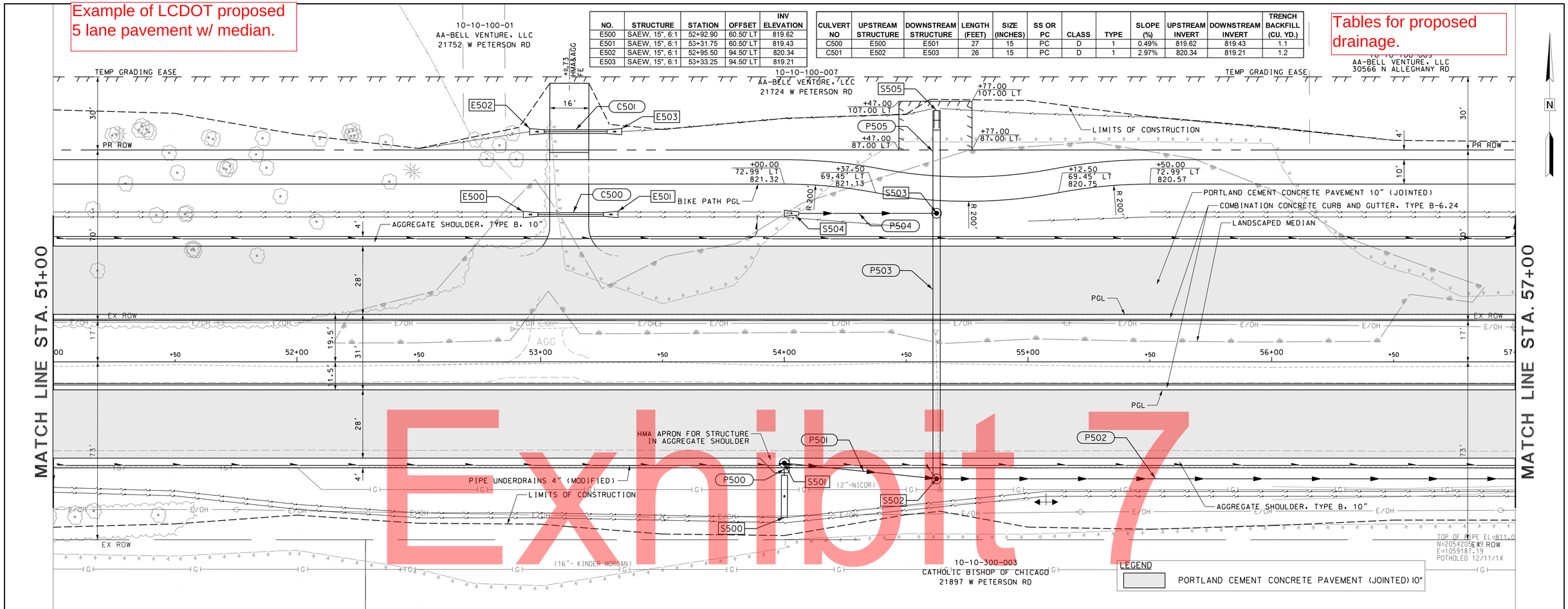
FILE NAME: U:\Design\Russo\15-00999-18-RS 21st Street Resurfacing (Access Improvements)\CAD\15-00999-18-RS.dgn

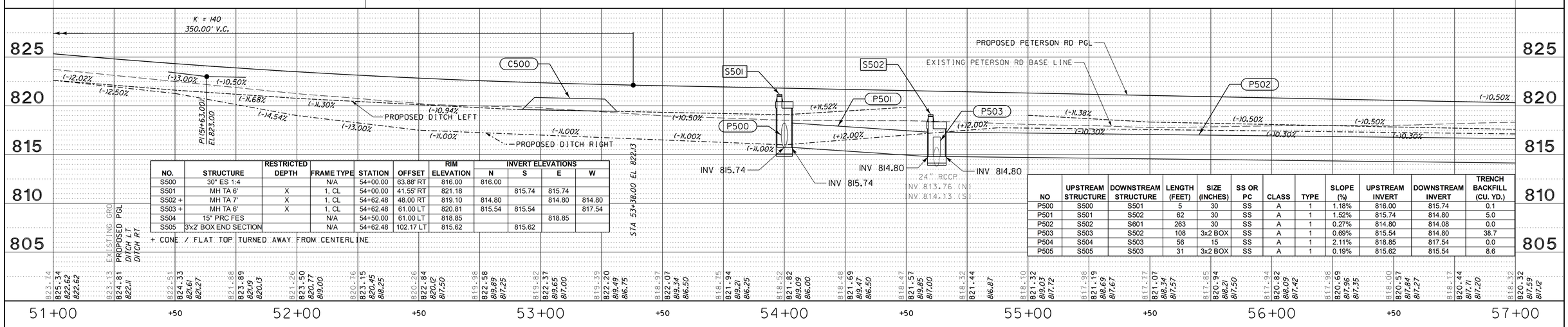
Example of LCDOT proposed 5 lane pavement w/ median.

Tables for proposed drainage.

NO.	STRUCTURE	STATION	OFFSET	INV ELEVATION
E500	SAEW, 15", 6:1	52+92.90	60.50' LT	819.62
E501	SAEW, 15", 6:1	53+31.75	60.50' LT	819.43
E502	SAEW, 15", 6:1	52+95.50	94.50' LT	820.34
E503	SAEW, 15", 6:1	53+33.25	94.50' LT	819.21

CULVERT NO	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	LENGTH (FEET)	SIZE (INCHES)	SS OR PC	CLASS	TYPE	SLOPE (%)	UPSTREAM INVERT	DOWNSTREAM INVERT	TRENCH BACKFILL (CU. YD.)
C500	E500	E501	27	15	PC	D	1	0.49%	819.62	819.43	1.1
C501	E502	E503	26	15	PC	D	1	2.97%	820.34	819.21	1.2





NO.	STRUCTURE	RESTRICTED DEPTH	FRAME TYPE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATIONS N	S	E	W
S500	30" ES 1:4		N/A	54+00.00	63.88' RT	816.00	816.00			
S501	MH TA 6'	X	1, CL	54+00.00	41.55' RT	821.18		815.74	815.74	
S502 +	MH TA 7'	X	1, CL	54+62.48	48.00 RT	819.10	814.80		814.80	814.80
S503 +	MH TA 6'	X	1, CL	54+62.48	61.00 LT	820.81	815.54	815.54		817.54
S504	15" PRC FES		N/A	54+50.00	61.00 LT	818.85			818.85	
S505	3'x2' BOX END SECTION		N/A	54+62.48	102.17 LT	815.62		815.62		

+ CONE / FLAT TOP TURNED AWAY FROM CENTERLINE

NO	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	LENGTH (FEET)	SIZE (INCHES)	SS OR PC	CLASS	TYPE	SLOPE (%)	UPSTREAM INVERT	DOWNSTREAM INVERT	TRENCH BACKFILL (CU. YD.)
P500	S500	S501	5	30	SS	A	1	1.18%	816.00	815.74	0.1
P501	S501	S502	62	30	SS	A	1	1.52%	815.74	814.80	5.0
P502	S502	S601	263	30	SS	A	1	0.27%	814.80	814.08	0.0
P503	S503	S502	108	3x2 BOX	SS	A	1	0.69%	815.54	814.80	38.7
P504	S504	S503	56	15	SS	A	1	2.11%	818.85	817.54	0.0
P505	S505	S503	31	3x2 BOX	SS	A	1	0.19%	815.62	815.54	8.6

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	
		/ /		SURVEYOR: /
		/ /		DSGNR/LIAISON:
				PLOTTED BY: pmagnelli 2/23/2015

SCALES
VERT 1 0
HORIZ. 0 20 40

LakeCounty
Division of Transportation

PETERSON ROAD PLAN AND PROFILE

PLAN & PROFILE STA. 51+00.00 TO STA. 57+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH20	098	10-00098-19-RP	101	453

FILE NAME: N:\LCDOT\140148.0001A\Civil\140148_Plan_Profile_Sheet_04.dgn

NO.	STRUCTURE	RESTRICTED DEPTH	FRAME TYPE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATIONS N	S	E	W
S600	36" EQ FES W/GRATE		N/A	57+26.00	112.63 RT	814.00	814.00			
S601 +	MH TA 6'	X	1, CL	57+26.00	48.00 RT	819.34	814.08	814.08		814.08
S602	MH TA 4'		1, CL	57+26.00	4.08 LT	823.02		814.16	814.16	
S603	FLUSH INLET BOX		INCLUDED	59+00.00	4.08 LT	819.52	814.42			814.42
S604	FLUSH INLET BOX		INCLUDED	59+00.00	60.48 LT	816.85		814.50		
S605	12" PRC FES		N/A	59+00.00	111.22 RT	814.00	814.00			
S606 ✱	6' MH W/RESTRICTOR	X	1, CL	59+00.00	98.00 RT	817.79		813.97		813.97
S607	MH TA 4'	X	1, CL	57+33.00	98.00 RT	816.90	813.77		813.77	
S608	MH TA 4'	X	1, CL	57+33.00	54.10 RT	817.77		813.72	813.72	
S609	MH TA 4'		1, CL	59+50.00	54.10 RT	818.63			813.44	813.44
S610 +	MH TA 4'	X	1, CL	61+50.00	54.10 RT	816.94		813.20		813.20
S611	12" PRC FES		N/A	61+50.00	68.85 RT	813.17	813.17			
S612	30" ES 1:4		N/A	62+13.24	70.60' RT	813.36	813.36			
S613	MH TA 5'	X	8	62+13.24	60.68' LT	818.38	814.50	814.50		
S614	30" PRC FES W/GRATE		N/A	62+13.24	101.40' LT	815.03		815.03		

✱ SEE RESTRICTOR PLATE DETAIL, PAGE 359
+ CONE / FLAT TOP TURNED AWAY FROM CENTERLINE

NO	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	LENGTH (FEET)	SIZE (INCHES)	SS OR PC	CLASS	TYPE	SLOPE (%)	UPSTREAM INVERT	DOWNSTREAM INVERT	TRENCH BACKFILL (CU. YD.)
P600	S601	S600	56	36 EQ	SS	A	1	0.13%	814.08	814.00	0.0
P601	S602	S601	52	21	SS	A	2	0.15%	814.16	814.08	13.8
P602	S603	S602	174	21	SS	A	2	0.15%	814.42	814.16	0.0
P603	S604	S603	56	21	SS	A	1	0.14%	814.50	814.42	2.8
P604	S605	S606	7	12	SS	A	1	0.40%	814.00	813.97	0.0
P605	S606	S607	167	12	SS	A	1	0.12%	813.97	813.77	0.0
P606	S607	S608	44	12	SS	DIP		0.11%	813.77	813.72	0.0
P607	S608	S609	217	12	SS	A	1	0.13%	813.72	813.44	0.0
P608	S609	S610	200	12	SS	A	1	0.12%	813.44	813.20	0.0
P609	S610	S611	8	12	SS	A	1	0.21%	813.20	813.17	0.0
P610	S613	S612	114	30	SS	A	2	0.87%	814.50	813.36	69.8
P611	S614	S613	31	30	SS	A	1	1.71%	815.03	814.50	10.0

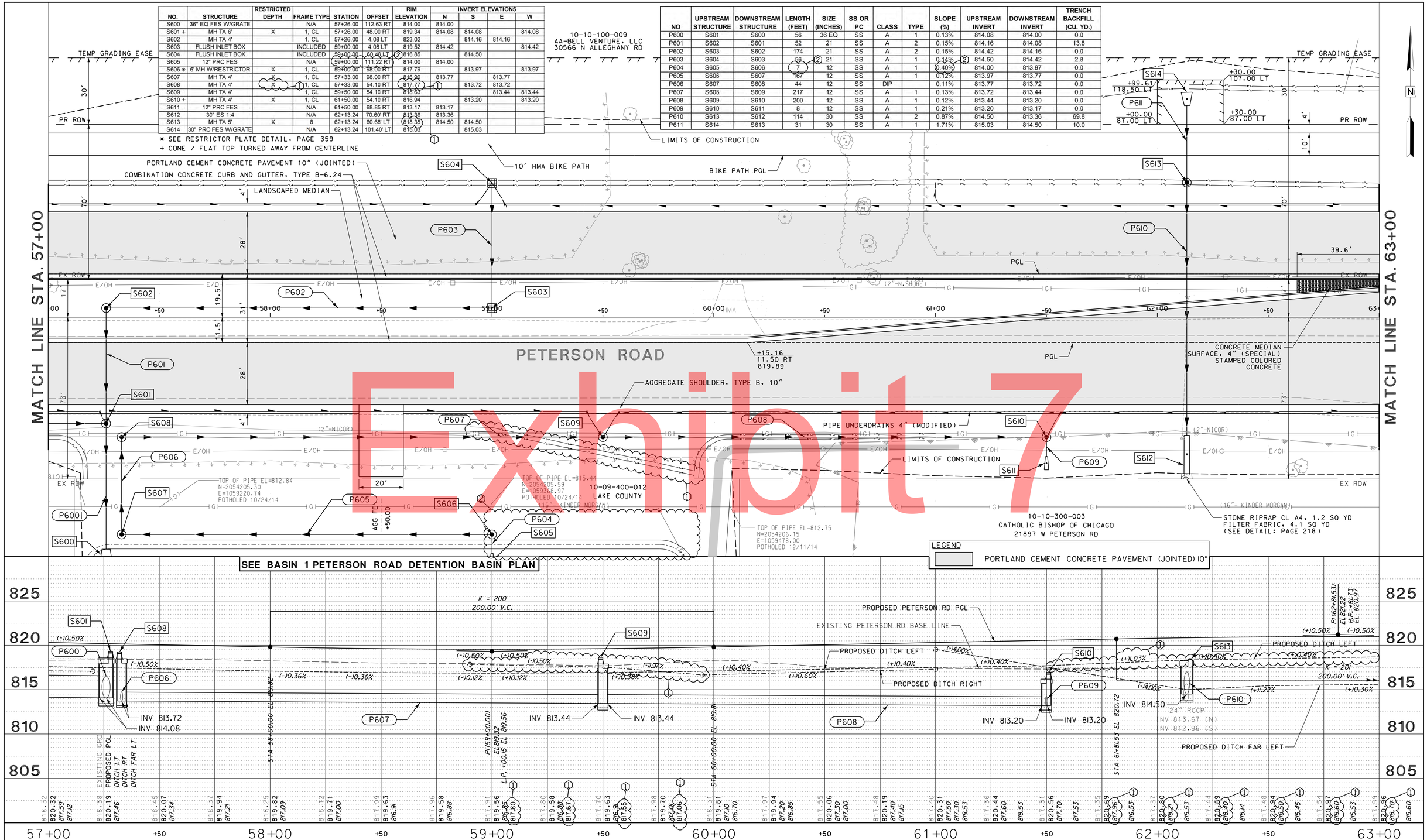


Exhibit 7

NO.	REVISIONS / REMARKS DESCRIPTION	DATE	BY	SURVEYOR:	/
1	CONSTRUCTION REVISION 1	04/29/15	MCW	DSGNR/LIAISON:	
2	CONSTRUCTION REVISION 2	06/09/15	MCW	PLOTTED BY:	mmcghee 6/8/2015

SCALES
VERT 1 0
HORIZ. 0 20 40

LakeCounty
Division of Transportation

PETERSON ROAD PLAN AND PROFILE

PLAN & PROFILE STA. 57+00.00 TO STA. 63+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH20	098	10-00098-19-RP	102	453

FILE NAME: N:\LCDOT\140148.0001A\Civil\140148_Plan_Profile_Sheet_05.dgn

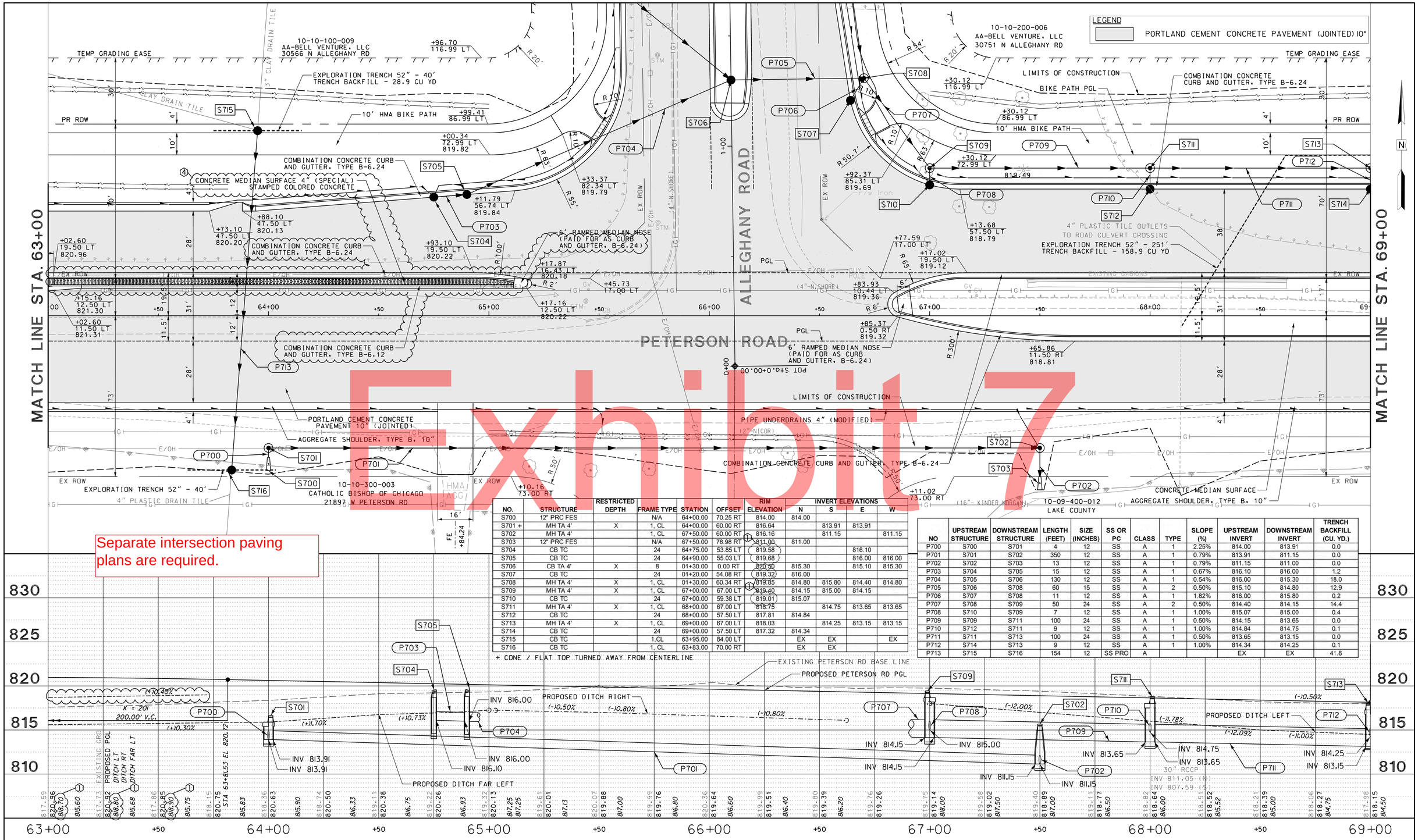


Exhibit 7

NO.	STRUCTURE	RESTRICTED DEPTH	FRAME TYPE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATIONS N	S	E	W
S700	12" PRC FES		N/A	64+00.00	70.25 RT	814.00	814.00			
S701 +	MH TA 4'	X	1, CL	64+00.00	60.00 RT	816.64		813.91	813.91	
S702	MH TA 4'		1, CL	67+50.00	60.00 RT	816.16		811.15		811.15
S703	12" PRC FES		N/A	67+50.00	78.98 RT	811.00	811.00			
S704	CB TC		24	64+75.00	53.85 LT	819.58			816.10	
S705	CB TC		24	64+90.00	55.03 LT	819.68			816.00	816.00
S706	CB TA 4'	X	8	01+30.00	0.00 RT	820.50	815.30		815.10	815.30
S707	CB TC		24	01+20.00	54.08 RT	819.32	816.00			
S708	MH TA 4'	X	1, CL	01+30.00	60.34 RT	819.85	814.80	815.80	814.40	814.80
S709	MH TA 4'	X	1, CL	67+00.00	67.00 LT	819.40	814.15	815.00	814.15	
S710	CB TC		24	67+00.00	59.38 LT	819.01	815.07			
S711	MH TA 4'	X	1, CL	68+00.00	67.00 LT	818.75		814.75	813.65	813.65
S712	CB TC		24	68+00.00	57.50 LT	817.81	814.84			
S713	MH TA 4'	X	1, CL	69+00.00	67.00 LT	818.03		814.25	813.15	813.15
S714	CB TC		24	69+00.00	57.50 LT	817.32	814.34			
S715	CB TC		1,CL	63+95.00	84.00 LT		EX	EX		EX
S716	CB TC		1, CL	63+83.00	70.00 RT		EX	EX		

+ CONE / FLAT TOP TURNED AWAY FROM CENTERLINE

NO	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	LENGTH (FEET)	SIZE (INCHES)	SS OR PC	CLASS	TYPE	SLOPE (%)	UPSTREAM INVERT	DOWNSTREAM INVERT	TRENCH BACKFILL (CU. YD.)
P700	S700	S701	4	12	SS	A	1	2.25%	814.00	813.91	0.0
P701	S701	S702	350	12	SS	A	1	0.79%	813.91	811.15	0.0
P702	S702	S703	13	12	SS	A	1	0.79%	811.15	811.00	0.0
P703	S704	S705	15	12	SS	A	1	0.67%	816.10	816.00	1.2
P704	S705	S706	130	12	SS	A	1	0.54%	816.00	815.30	18.0
P705	S706	S708	60	15	SS	A	2	0.50%	815.10	814.80	12.9
P706	S707	S708	11	12	SS	A	1	1.82%	816.00	815.80	0.2
P707	S708	S709	50	24	SS	A	2	0.50%	814.40	814.15	14.4
P708	S710	S709	7	12	SS	A	1	1.00%	815.07	815.00	0.4
P709	S709	S711	100	24	SS	A	1	0.50%	814.15	813.65	0.0
P710	S712	S711	9	12	SS	A	1	1.00%	814.84	814.75	0.1
P711	S711	S713	100	24	SS	A	1	0.50%	813.65	813.15	0.0
P712	S714	S713	9	12	SS	A	1	1.00%	814.34	814.25	0.1
P713	S715	S716	154	12	SS PRO	A			EX	EX	41.8

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
1	CONSTRUCTION REVISION	04/29/15	MCW	DSGNR/LIAISON:	
4	CONSTRUCTION REVISION 4	10/30/15	MCW	PLOTTED BY:	mmcgheel0/29/2015

SCALES
VERT 1 0
HORIZ. 0 20 40

LakeCounty
Division of Transportation

PETERSON ROAD PLAN AND PROFILE

PLAN & PROFILE STA. 63+00.00 TO STA. 69+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH20	098	10-00098-19-RP	103	453

FILE NAME: N:\LCDOT\140148.000IA\Civil\140148_Plan_Profile_Sheet_06.dgn

Example plans for roadside work - e.g. sidewalk (shown), drainage improvements, guardrail etc...

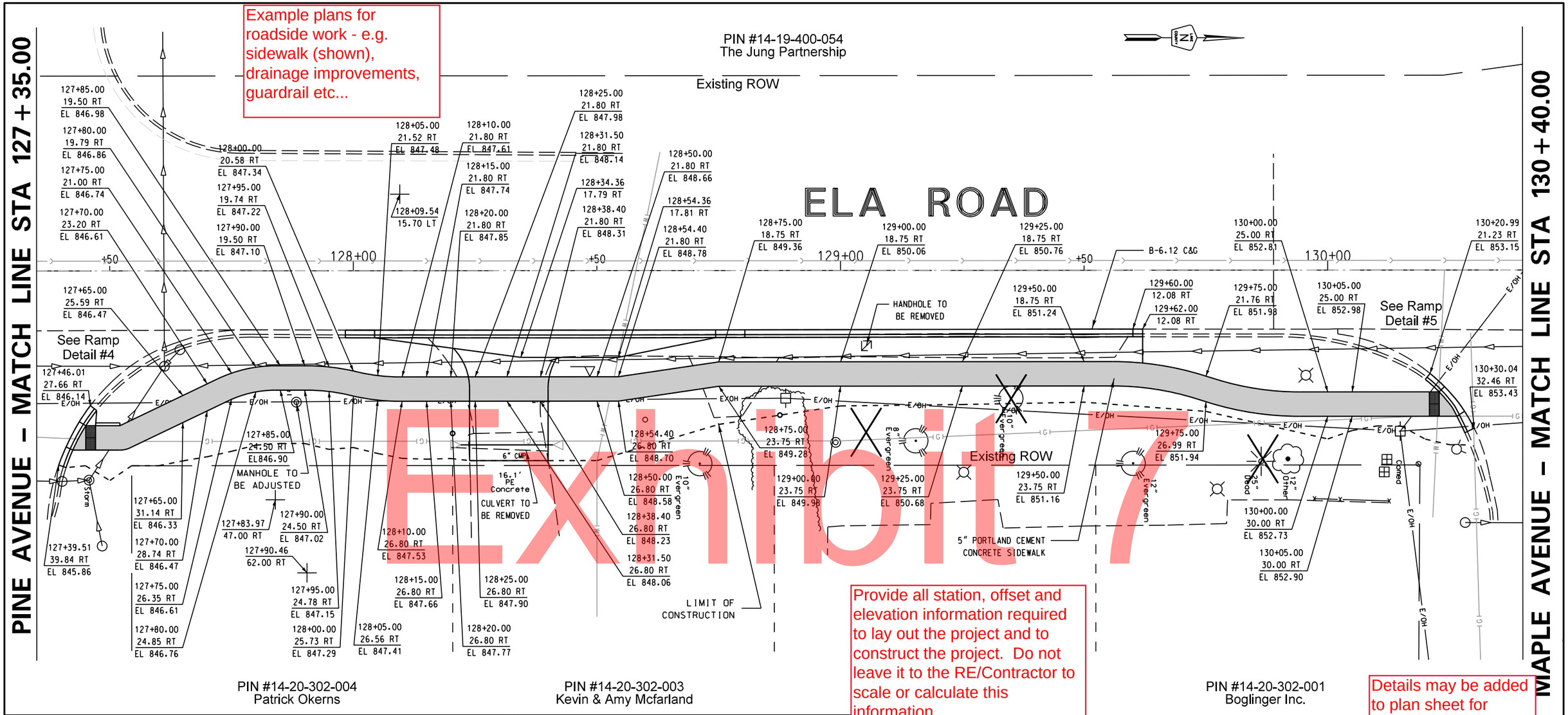
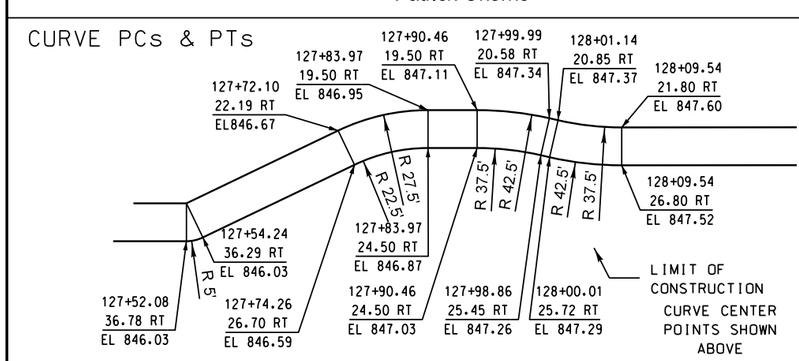
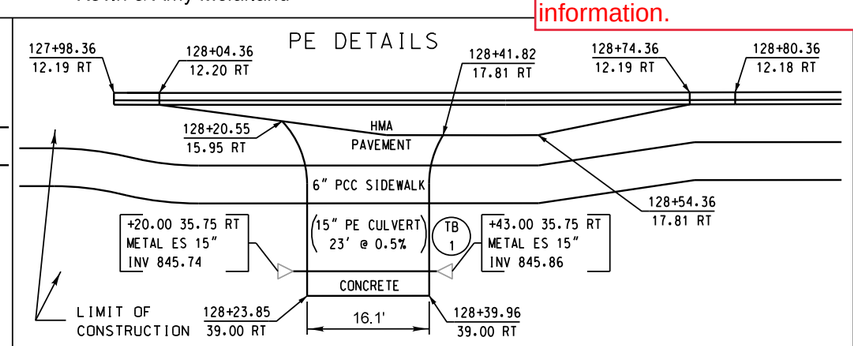


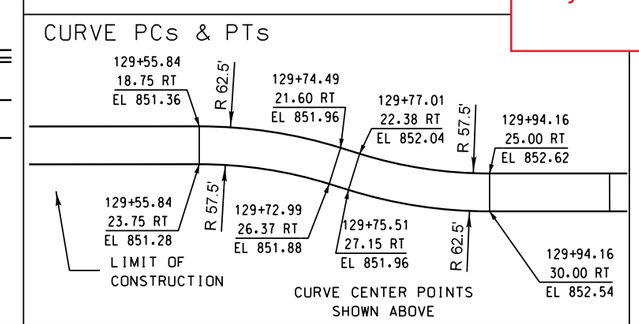
Exhibit 7

Provide all station, offset and elevation information required to lay out the project and to construct the project. Do not leave it to the RE/Contractor to scale or calculate this information.

Details may be added to plan sheet for clarity.







REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 10 20

LakeCounty Division of Transportation

ELA ROAD RESURFACING

SIDEWALK CONSTRUCTION STA 127+35.00 TO 130+40.00

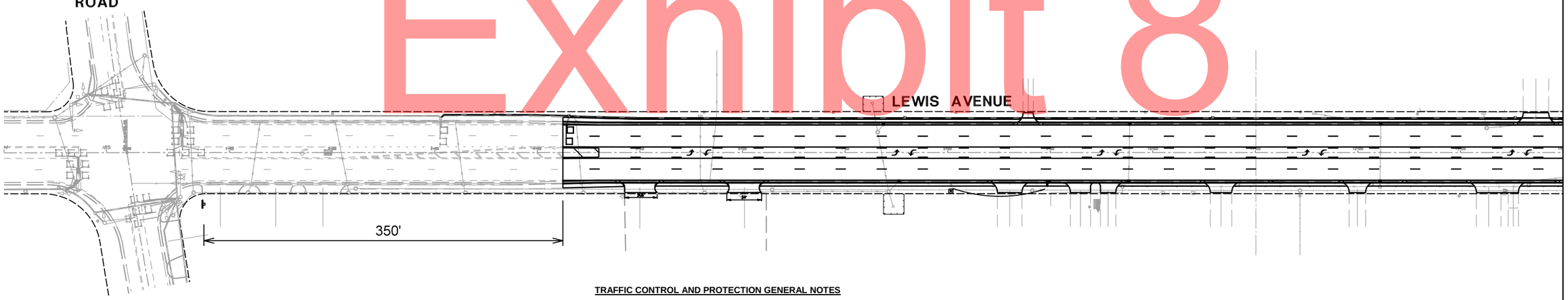
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	35	150

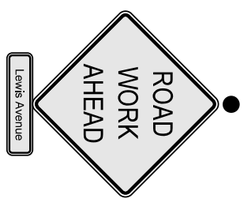
FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN

Exhibit 8

SCALE 1" = 100'





Traffic Control General Notes available on the LCDOT website

POSTED SPEED LIMIT	
LEWIS AVENUE - 45 MPH	
33rd STREET - 40 MPH (W) & 35 MPH (E)	
21st STREET - 40 MPH (W) & 30 MPH (E)	
ALL OTHER SIDEROADS - 30 MPH	
TRAFFIC CONTROL SIGN SPACING TABLE	
55MPH	500 FT.
45-50 MPH	350 FT.
<45 MPH	200 FT.

TRAFFIC CONTROL AND PROTECTION GENERAL NOTES

1. APPLICABLE STANDARDS

   IDOT Standards: 701001-02, 701006-04, 701301-04, 701311-03, 701501-06, 701901-02

   LCDOT Standards: LC7000, LC7004, LC7200

2. No work shall begin until the Traffic Control measures are in place. The Contractor shall at all times provide traffic protection by the application of traffic control devices according to the "Standard Specifications" and as shown on the plans.

3. The permanent traffic control shown on the plans is the minimum requirement. Additional traffic control devices as specified by the above Highway Standards and the Special Provisions shall be placed by the Contractor to the satisfaction of the Engineer. All traffic control devices shall be considered included in the lump sum pay item TRAFFIC CONTROL AND PROTECTION (SPECIAL) unless otherwise shown on the plans or in the special provisions.

4. All traffic control warning signs and associated signing mounted with the warning signs shall have black legends and borders on fluorescent orange reflective sheeting.

5. All construction signs, barricades and other devices required to control traffic shall be furnished, installed and maintained by the Contractor.

   - The Contractor shall furnish and install two weighted sand bags on each Type II barricade.
   - The Contractor shall furnish and install a minimum of four weighted sand bags on each Type III barricade.

6. All traffic control devices shall be removed, covered or turned away from traffic immediately when they are no longer necessary. When a sign is covered, its post shall have a reflective 3 inch x 6 inch delineator installed.

7. The sign spacing for the above Highway Standards shall be according to the Sign Spacing Table shown on this Traffic Control Plan.

8. Road name plates shall be installed on the "ROAD WORK AHEAD" signs at the intersections shown on this Traffic Control Plan. The road name plates shall be 9 inch blanks with 6 inch uppercase and 5 inch lowercase lettering. The road name plates shall be furnished by the Contractor.

9. "ROAD WORK AHEAD" signs shall be equipped with mono-directional Type A amber flashing lights.

10. When milled pavement is open to traffic the grade difference between adjacent lanes shall be limited to a maximum of 1.5 inches. The grade difference may be increased to a maximum of 3 inches with the following

    - A 3:1 or flatter slope is provided between lanes.
    - Written approval from the Engineer.

SIGN NO.	SIGN TYPE
1	W20-1 (O)-48
2	W17-I 100 (O)-9xVARIABLE
3	M6-1R (O)-2115
4	M6-1L (O)-2115
5	M6-3 (O)-2115
6	M6-4 (O)-2115

Signs shown with a black border. Road Name signs - Uppercase 1st letter and lowercase remaining letters of each work. Black border on name sign.

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING

TRAFFIC CONTROL PLAN

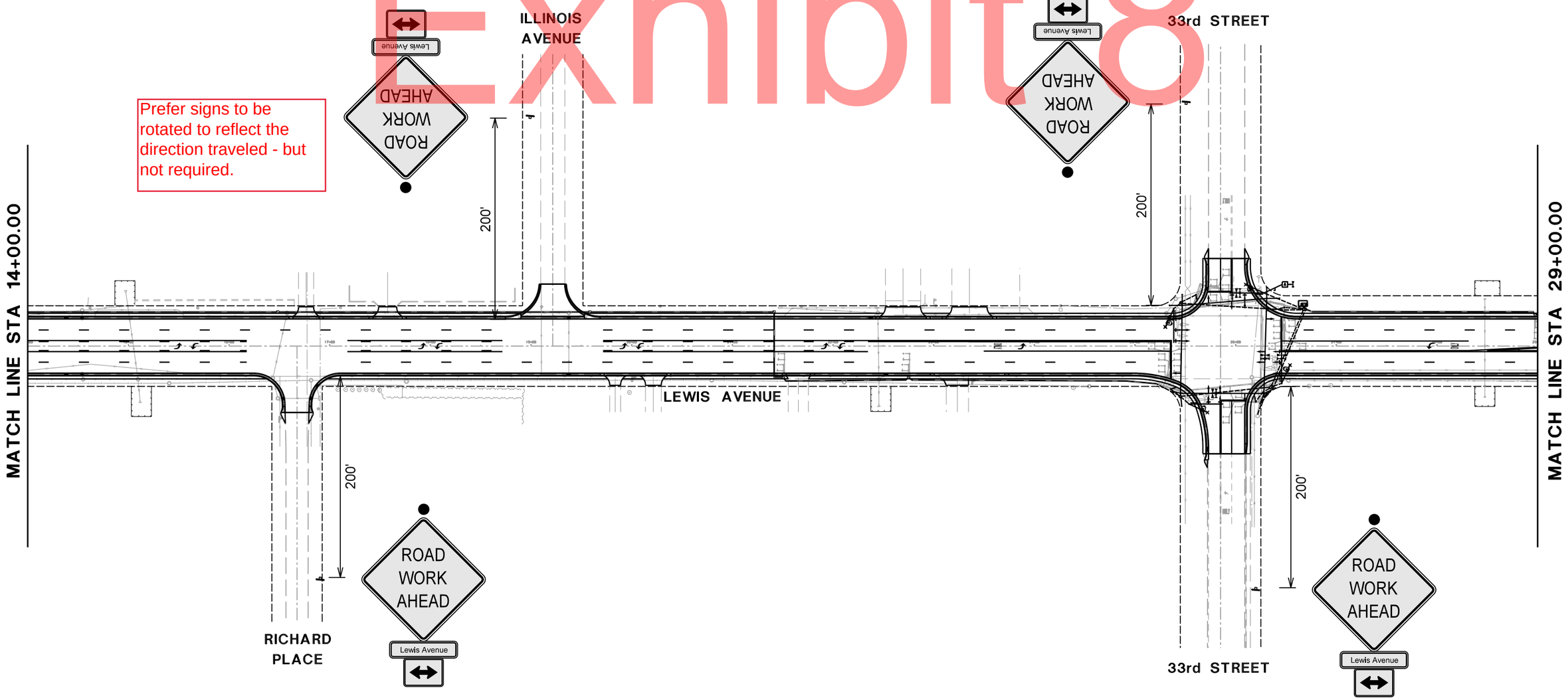
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	47	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN (cont)

Exhibit 8

SCALE 1" = 100'



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING

TRAFFIC CONTROL PLAN

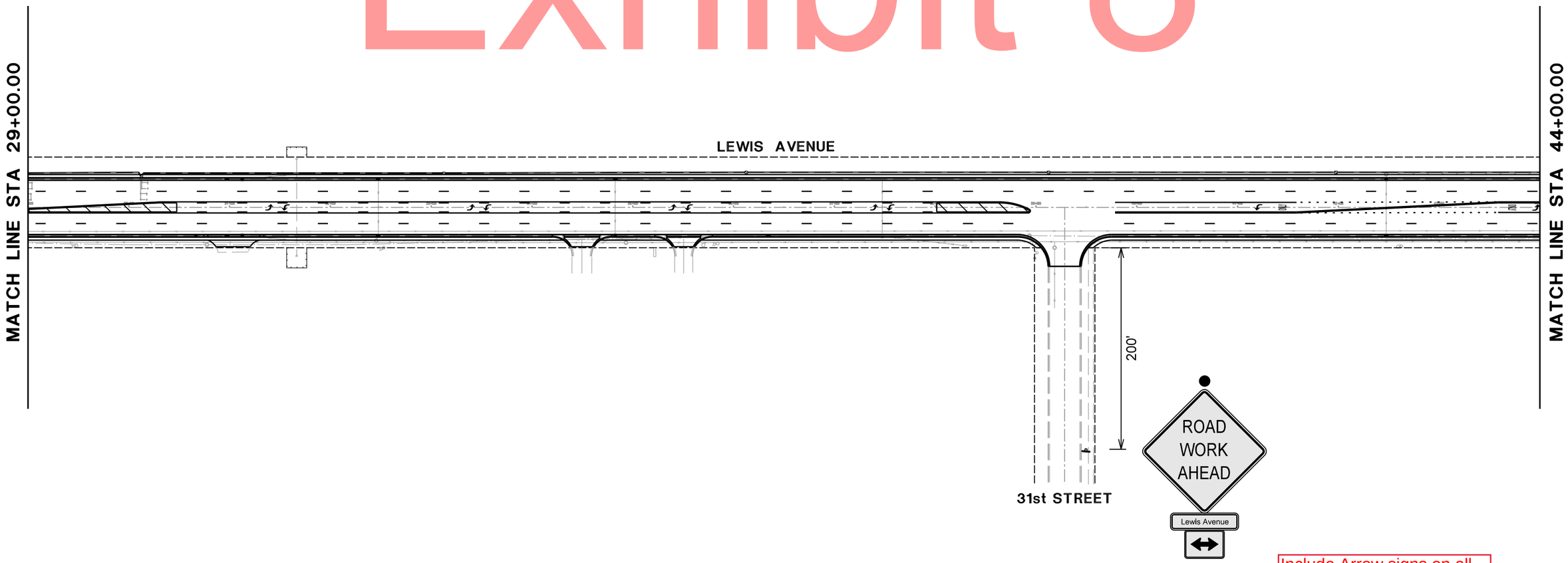
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	48	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN (cont)

Exhibit 8

SCALE 1" = 100'



Include Arrow signs on all signs except straight ahead - see sheet 54.

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
TRAFFIC CONTROL PLAN

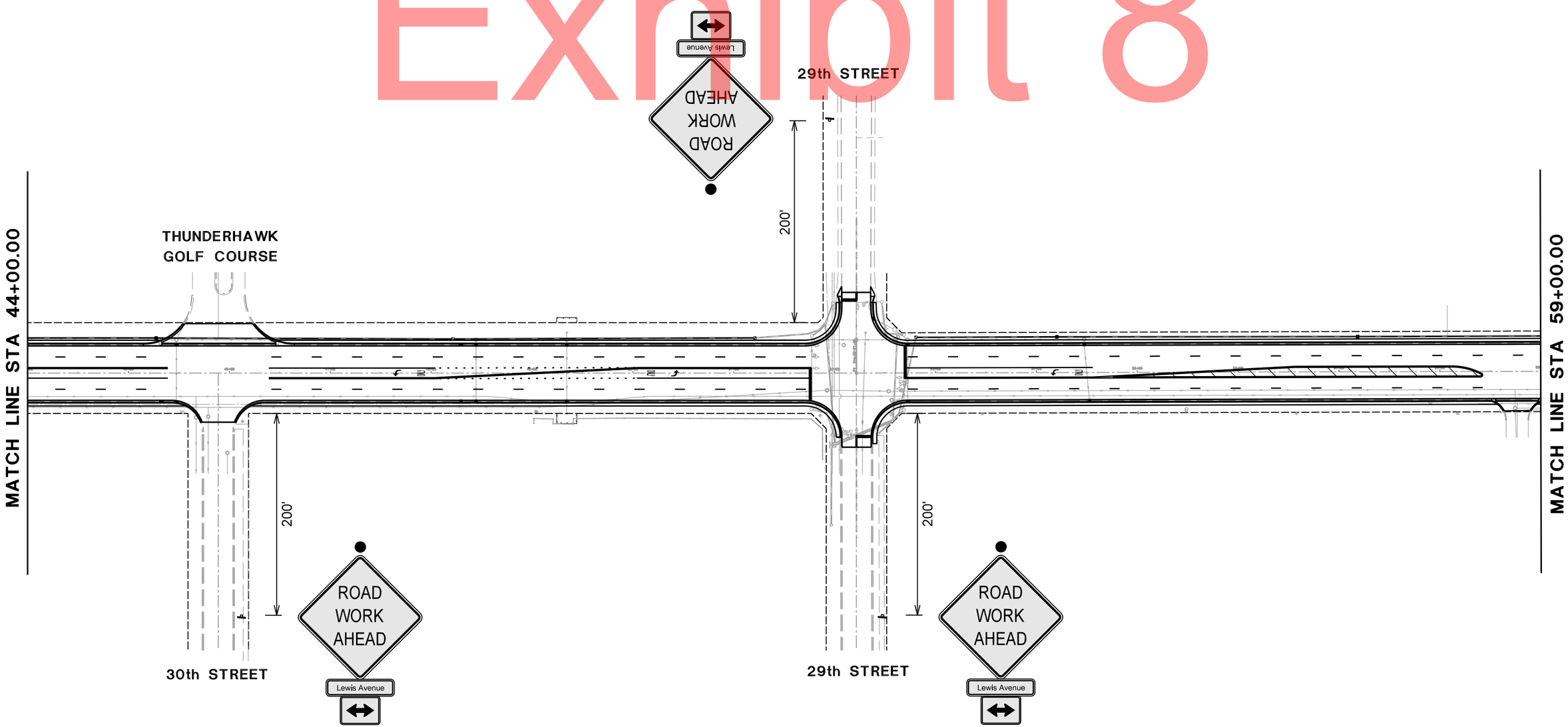
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	49	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN (cont)

Exhibit 8

SCALE 1" = 100'



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
PLAN SHEETS

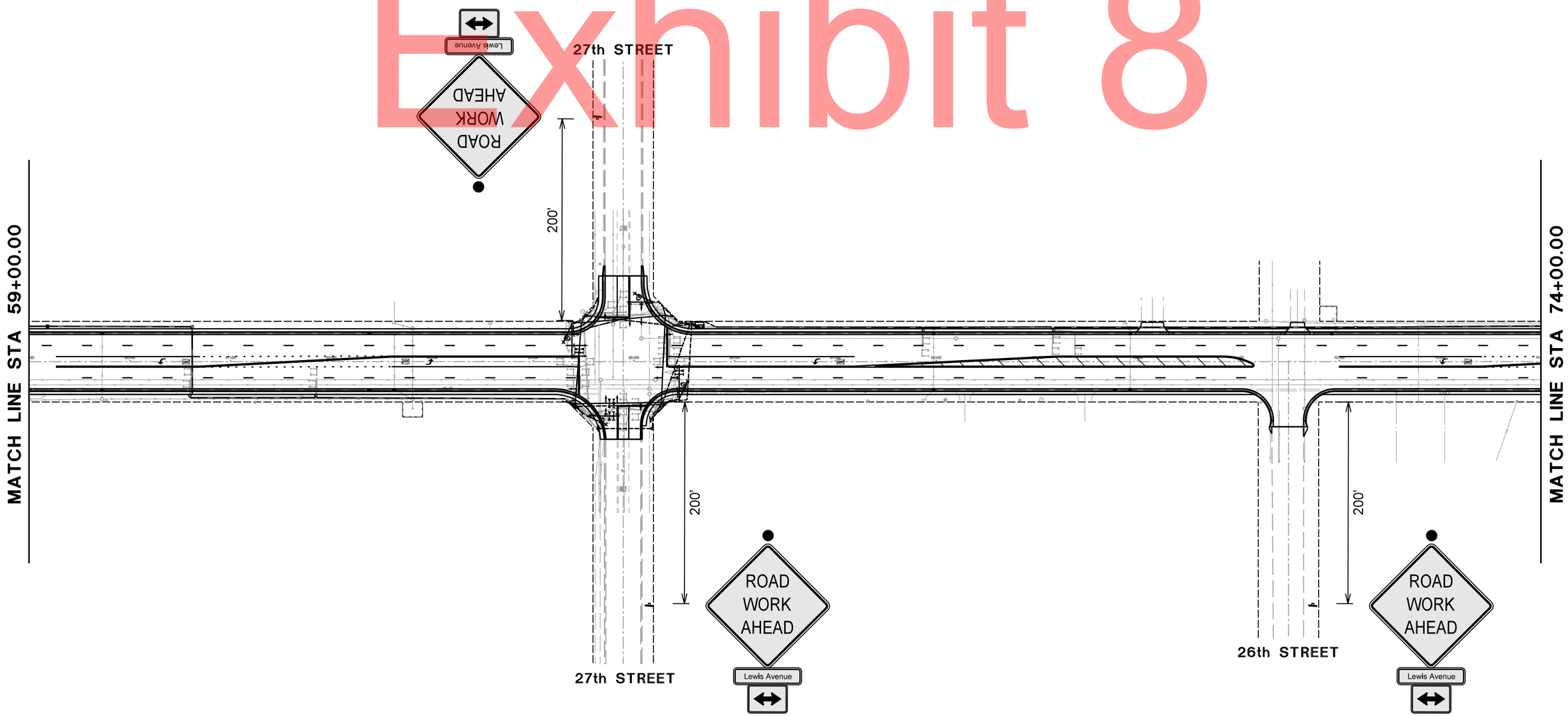
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	50	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN (cont)

SCALE 1" = 100'

Exhibit 8



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
TRAFFIC CONTROL PLAN

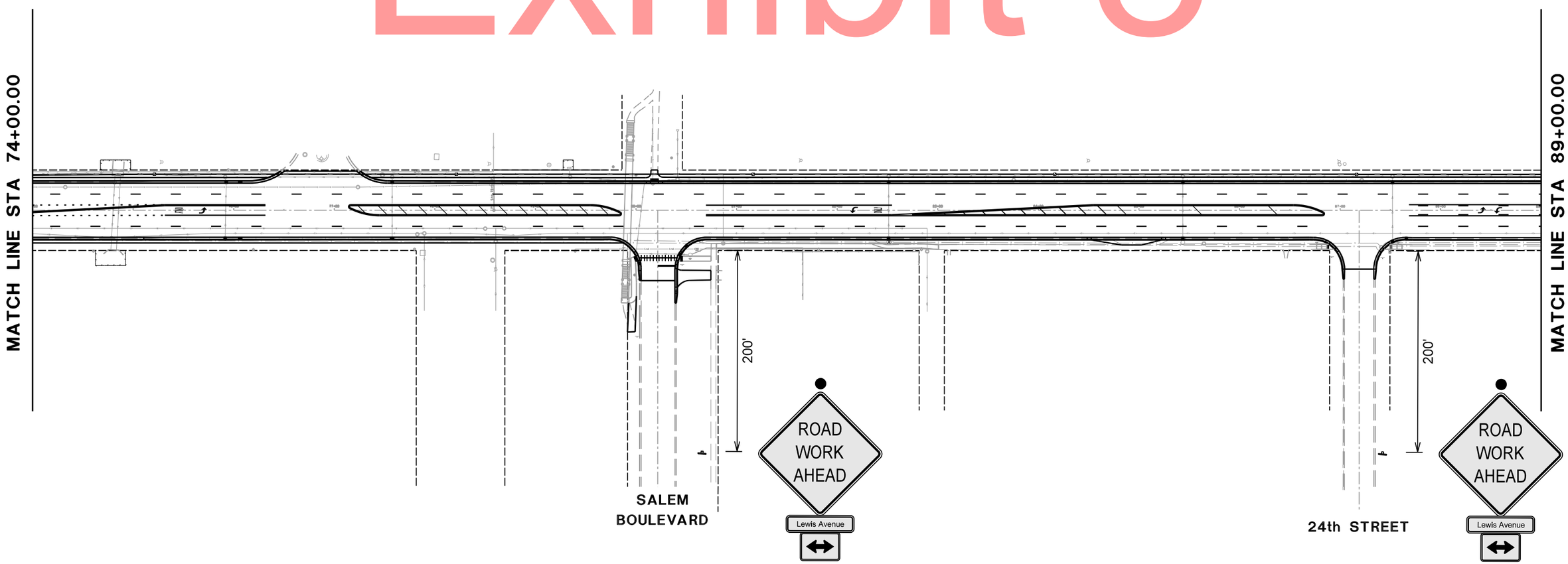
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	51	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN (cont)

Exhibit 8

SCALE 1" = 100'



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
TRAFFIC CONTROL PLAN

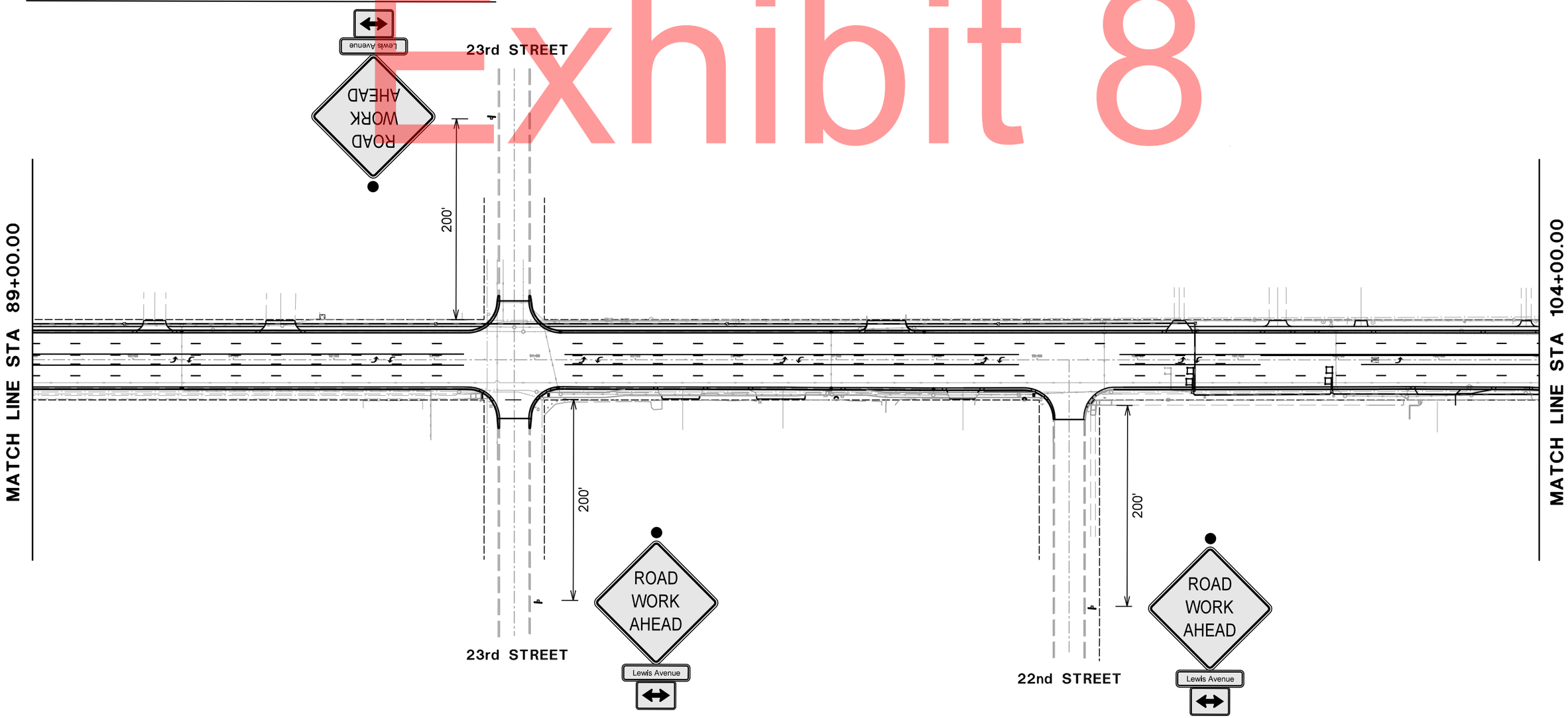
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	52	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN (cont)

Exhibit 8

SCALE 1" = 100'



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING

TRAFFIC CONTROL PLAN

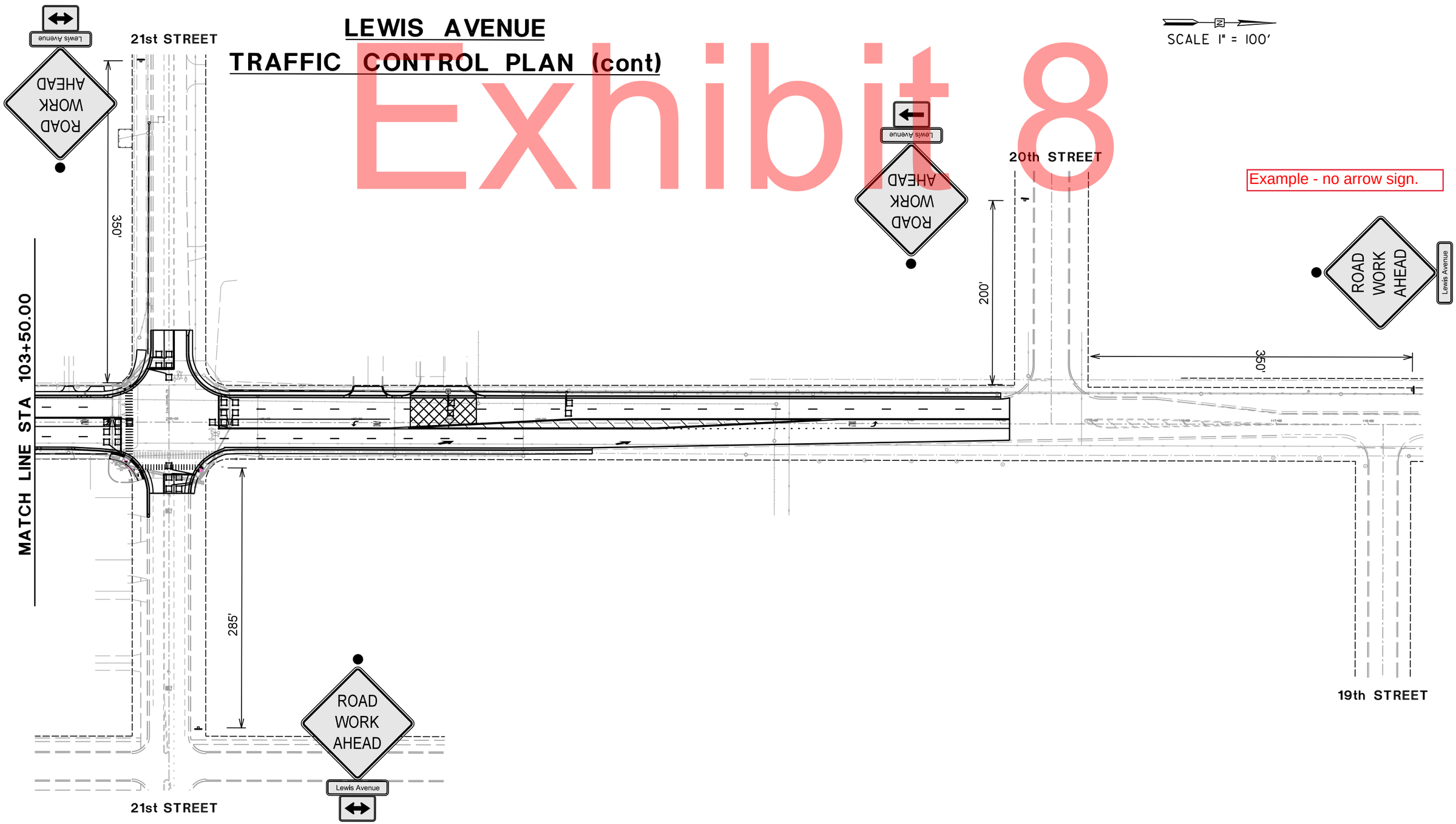
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	53	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LEWIS AVENUE
TRAFFIC CONTROL PLAN (cont)

Exhibit 8

SCALE 1" = 100'



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
TRAFFIC CONTROL PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	54	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Traffic ControlPlan New.dgn

LCDOT Soil Erosion and Sediment Control General Notes and LCSMC Soil Erosion and Sediment Control Construction Notes are available on the LCDOT web site under the Special Provisions tab.

EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

THIS PROJECT DISTURBS 1.00 ACRES OF TOTAL LAND AREA.
COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1.0 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT WILL BE REQUIRED FOR THIS PROJECT.

NPDES statement including land disturbed (acres); if less than or greater than 1 acre; if a permit is required.

LAKE COUNTY DIVISION OF TRANSPOTATION SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES

A. AREAS OR EMBANKMENTS WITH 2:1 SLOPES OR STEEPER SHALL BE STABILIZED WITH SOD OR EROSION CONTROL BLANKET (SPECIAL) IN COMBINATION WITH SEEDING.

B. ANY SEDIMENT OR SOIL TRACKED OFF THE SITE SHALL BE REMOVED BY SCRAPING OR STREET SWEEPING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ALL EXISTING AREAS (TO REMAIN) AFFECTED BY CONSTRUCTION ACTIVITIES, EQUIPMENT, OR LABORERS TO THE ORIGINAL UNDISTURBED CONDITIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL THE COMPLETION OF THE CONTRACT.

D. PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS AT 1 FOOT OUTSIDE THE TOE OF SLOPE OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION.

E. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE PERIMETER EROSION BARRIER REMOVAL SHALL BE RESTORED. THE RESTORATION OF THE AREA DISTURBED BY THE PERIMETER EROSION BARRIER REMOVAL SHALL BE INCLUDED IN THE PAY ITEM OF PERIMETER EROSION BARRIER.

F. THE INSTALLATION & REMOVAL OF PERIMETER EROSION BARRIER SHALL BE PAID FOR UNDER THE ITEM OF PERIMETER EROSION BARRIER. MAINTENANCE OF PERIMETER EROSION BARRIER SHALL BE PAID FOR UNDER THE ITEM OF MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

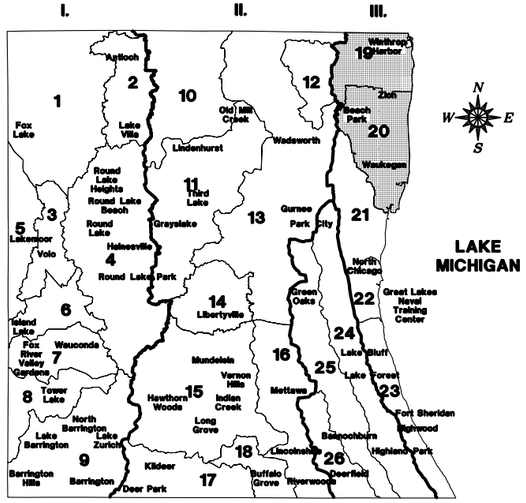
G. TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD DETAIL SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DITCH CHECKS SHALL BE INSTALLED AS GRADING PROGRESSES THROUGH THE PROJECT.

H. ALL SEEDED AREAS SHALL BE COVERED WITH EROSION CONTROL BLANKET.

SOIL EROSION AND SEDIMENT CONTROL PROJECT SPECIFIC NOTES

THE INLET FILTERS SHALL BE INSTALLED IN BOTH EXISTING AND PROPOSED DRAINAGE STRUCTURES LOCATED IN THE CURB AND GUTTER. THE FILTER SHALL BE REMOVED FROM THE EXISTING STRUCTURES JUST PRIOR TO REMOVING THE STRUCTURE AND IMMEDIATELY INSTALLED IN THE NEW STRUCTURE ONCE IT IS IN PLACE.

DRAINAGE BASINS OF LAKE COUNTY



I. FOX RIVER WATERSHED
1. Upper Fox River
2. Sequoit Creek
3. Fish Lake Drain
4. Squaw Creek
5. Lower Fox River
6. Mutton Creek
7. Slocum Lake Drain
8. Tower Lake Drain
9. Flint Creek

II. DES PLAINES RIVER WATERSHED
10. North Mill Creek
11. Mill Creek
12. Newport Drainage Ditch
13. Upper Des Plaines River
14. Bull Creek
15. Indian Creek
16. Lower Des Plaines River
17. Buffalo Creek
18. Aptakisic Creek

III. LAKE MICHIGAN WATERSHED
19. Kellogg Creek
20. Dead River
21. Waukegan River
22. Pettibone Creek
23. Bluff/Ravine

IV. CHICAGO RIVER WATERSHED
24. Skokie River
25. Middle Fork
26. West Fork

Lake county map with project basin cross hatched and name boxed. The ECP base file is included in the CAD zip file (link on the LCDOT web site)

LAKE COUNTY STORMWATER MANAGEMENT COMMISSION SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES

A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
- UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
- AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.

F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.

G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.

H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.

I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.

J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.

M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.

N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

Exhibit 9

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING
EROSION CONTROL PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	55	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Erosion ControlPlan.dgn

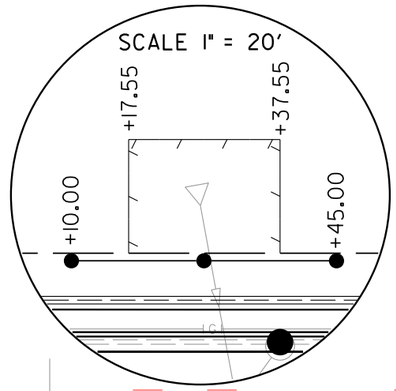
EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

SCALE 1" = 100'

LEGEND

- ROLL — PERIMETER EROSION BARRIER, ROLLED EXCELSIOR
- PERIMETER EROSION BARRIER
- INLET FILTER
- STORM SEWER
- DITCH FLOW OR OUTFLOW

Details as required. Note the stations for the ends of the Perimeter Erosion Barrier.



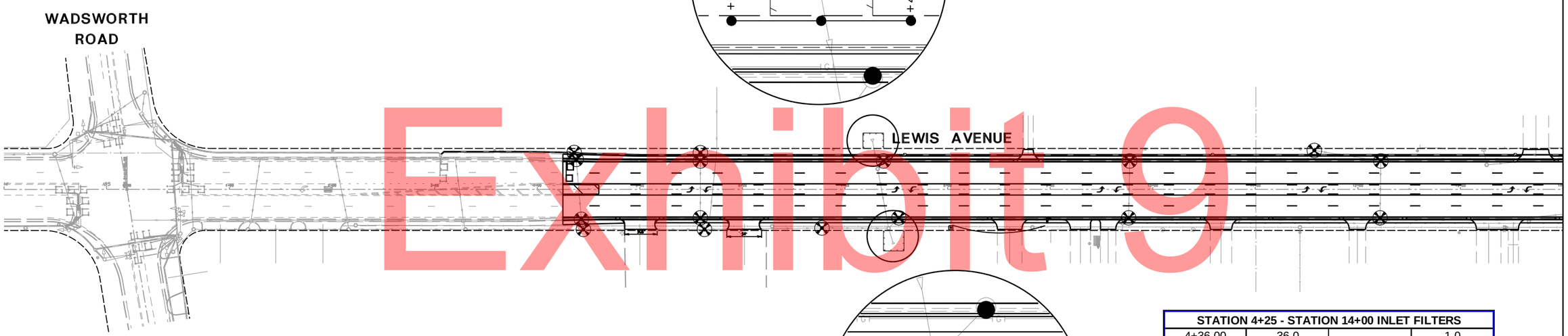
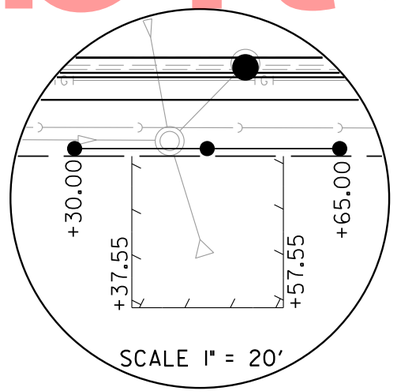


Exhibit 9



STATION 4+25 - STATION 14+00 INLET FILTERS			
4+36.00	36.0	LEFT	1.0
4+38.00	27.5		1.0
5+59.00	35.8		1.0
5+59.00	27.0		1.0
7+37.60	27.0		1.0
9+77.60	27.0		1.0
11+57.60	38.0		1.0
12+22.40	27.0		1.0
13+22.60	38.0		1.0
4+43.00	27.4	RIGHT	1.0
4+45.00	39.0		1.0
5+59.00	27.0		1.0
5+63.00	39.0		1.0
6+77.60	37.7		1.0
7+52.60	27.0		1.0
9+76.60	27.0		1.0
12+21.60	27.0		1.0
SUBTOTAL THIS SHEET			17.0

ESTIMATED QUANTITIES

1455 FEET - PERIMETER EROSION BARRIER

5292 FEET - PERIMETER EROSION BARRIER, ROLLED EXCELSIOR

150 EACH - INLET FILTER

Project estimated quantities

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING

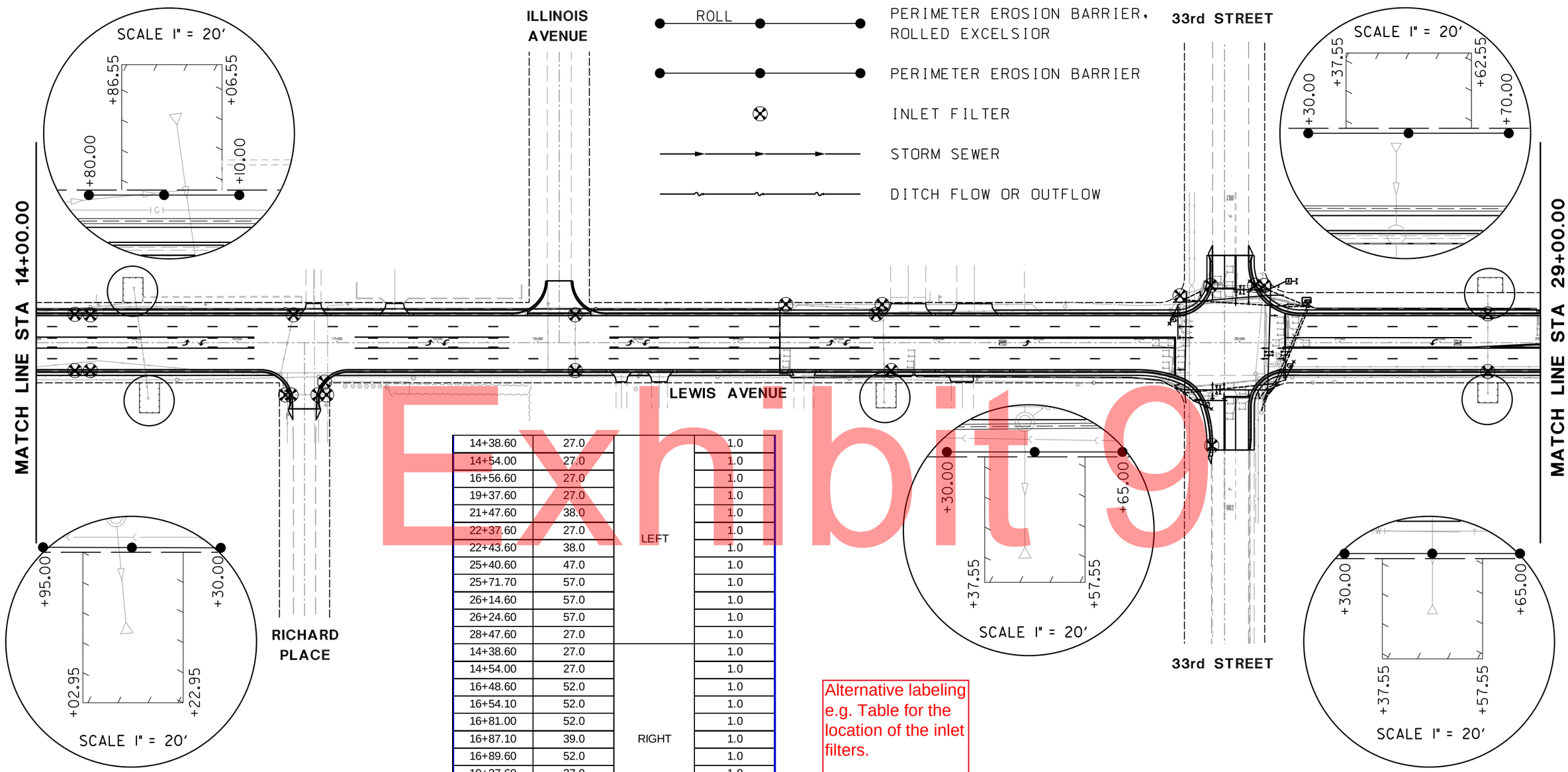
EROSION CONTROL PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	56	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Erosion ControlPlan.dgn

LEGEND

- ROLL — PERIMETER EROSION BARRIER, ROLLED EXCELSIOR
- PERIMETER EROSION BARRIER
- INLET FILTER
- STORM SEWER
- DITCH FLOW OR OUTFLOW



14+38.60	27.0	LEFT	1.0
14+54.00	27.0		1.0
16+56.60	27.0		1.0
19+37.60	27.0		1.0
21+47.60	38.0		1.0
22+37.60	27.0		1.0
22+43.60	38.0		1.0
25+40.60	47.0		1.0
25+71.70	57.0		1.0
26+14.60	57.0		1.0
26+24.60	57.0		1.0
28+47.60	27.0		1.0
14+38.60	27.0	RIGHT	1.0
14+54.00	27.0		1.0
16+48.60	52.0		1.0
16+54.10	52.0		1.0
16+81.00	52.0		1.0
16+87.10	39.0		1.0
16+89.60	52.0		1.0
19+37.60	27.0		1.0
22+52.60	27.0		1.0
25+72.20	102.5		1.0
28+47.60	27.0		1.0
SUBTOTAL THIS SHEET			23.0

Alternative labeling e.g. Table for the location of the inlet filters.

EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING

EROSION CONTROL PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	57	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\Erosion ControlPlan.dgn

Exhibit 9

EROSION CONTROL PLAN &
STORMWATER POLLUTION PREVENTION PLAN

LEGEND

- PERIMETER EROSION BARRIER, ROLLED EXCELSIOR
- TEMPORARY DITCH CHECK
- INLET PROTECTION SPECIAL
- STORM SEWER
- DITCH FLOW OR OUTFLOW
- INLET FILTER

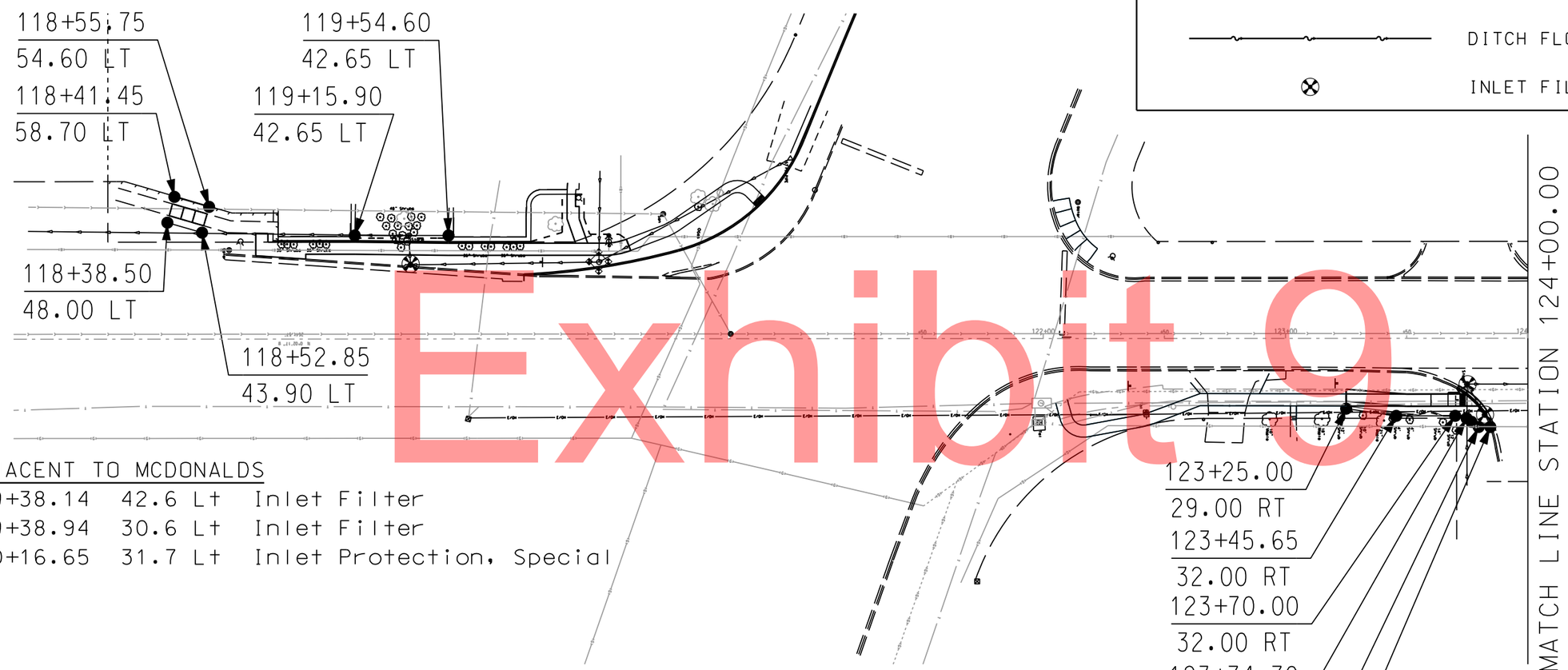


Exhibit 9

ADJACENT TO MCDONALDS

119+38.14	42.6 Lt	Inlet Filter
119+38.94	30.6 Lt	Inlet Filter
120+16.65	31.7 Lt	Inlet Protection, Special

Label all ends, corners, bends etc... for the perimeter erosion barrier with station/offset.

NORTH OF US 12 TO TERRACE LANE

123+74.88	18.9 Rt	Inlet Filter
123+82.16	31.6 Rt	Inlet Filter

ESTIMATED QUANTITIES

628 FEET - PERIMETER EROSION BARRIER, ROLLED EXCELSIOR

2 EACH (28 FT) - TEMPORARY DITCH CHECK, URETHANE FOAM/GEOTEXTILE

7 EACH - INLET PROTECTION, SPECIAL

9 EACH - INLET FILTER

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 50 100

LakeCounty
Division of Transportation

ELA ROAD RESURFACING
EROSION CONTROL PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	41	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

LEGEND

- PERIMETER EROSION BARRIER, ROLLED EXCELSIOR
- TEMPORARY DITCH CHECK
- INLET PROTECTION SPECIAL
- STORM SEWER
- DITCH FLOW OR OUTFLOW
- INLET FILTER

PINE AVENUE TO MAPLE AVENUE

127+40.21	43.2 Rt	Inlet Filter	
127+48.42	56.5 Rt	Inlet Protection, Special	
127+60.00	37.6 Rt	Ditch Check	
127+61.22	19.6 Rt	Inlet Protection, Special	
127+64.40	16.2 Rt	Inlet Filter	
127+94.70	34.4 Rt	Ditch Check	
130+28.18	51.8 Rt	Inlet Protection, Special	

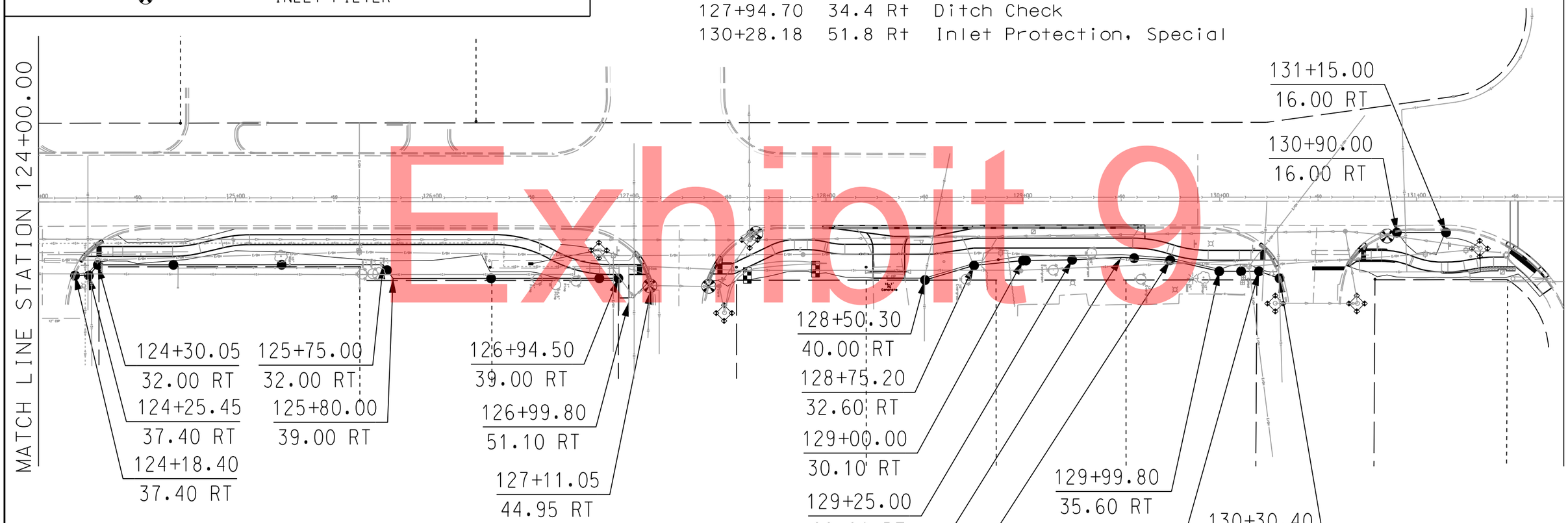


Exhibit 9

TERRACE LANE TO PINE AVENUE

126+50.00	31.7 Rt	Inlet Filter (after installation)
126+84.70	24.6 Rt	Inlet Protection, Special
127+10.50	42.8 Rt	Inlet Filter

MAPLE AVENUE TO IL 22

130+70.00	52.0 Rt	Inlet Protection, Special
130+85.22	17.4 Rt	Inlet Filter
131+32.38	23.4 Rt	Inlet Protection, Special

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

0 50 100

LakeCounty Division of Transportation

ELA ROAD RESURFACING

EROSION CONTROL PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	42	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\Plan Sheets.dgn

ROUTE	SECTION	COUNTY	SHEET	SHEETS
CH22	093	LAKE	41	133
INTERSECTION ELEVATIONS				
02-00093-16-CH	ILLINOIS	DELANY at SUNSET		

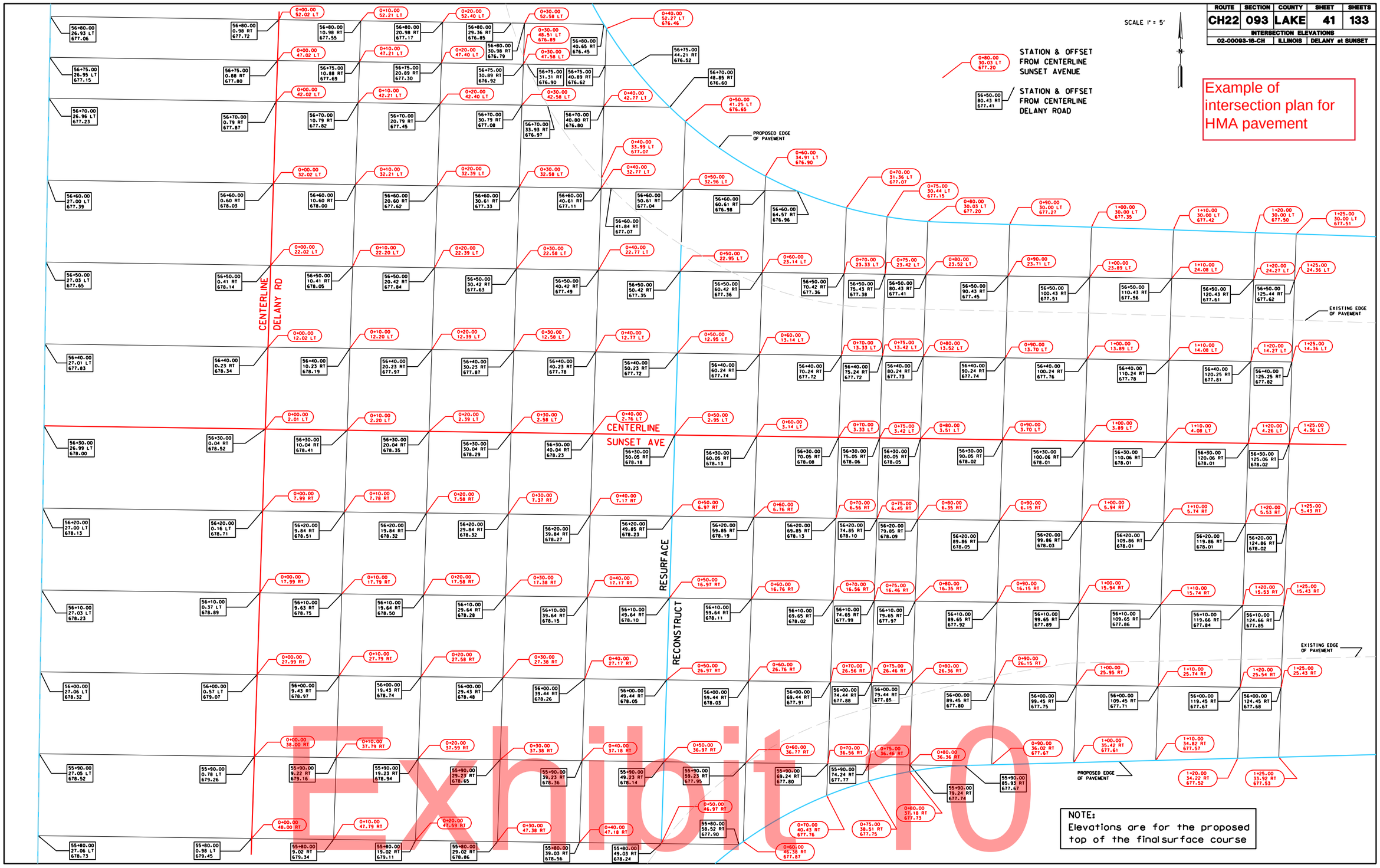
SCALE 1" = 5'

N

STATION & OFFSET FROM CENTERLINE SUNSET AVENUE

STATION & OFFSET FROM CENTERLINE DELANY ROAD

Example of intersection plan for HMA pavement



NOTE:
Elevations are for the proposed top of the final surface course

Exhibit 10

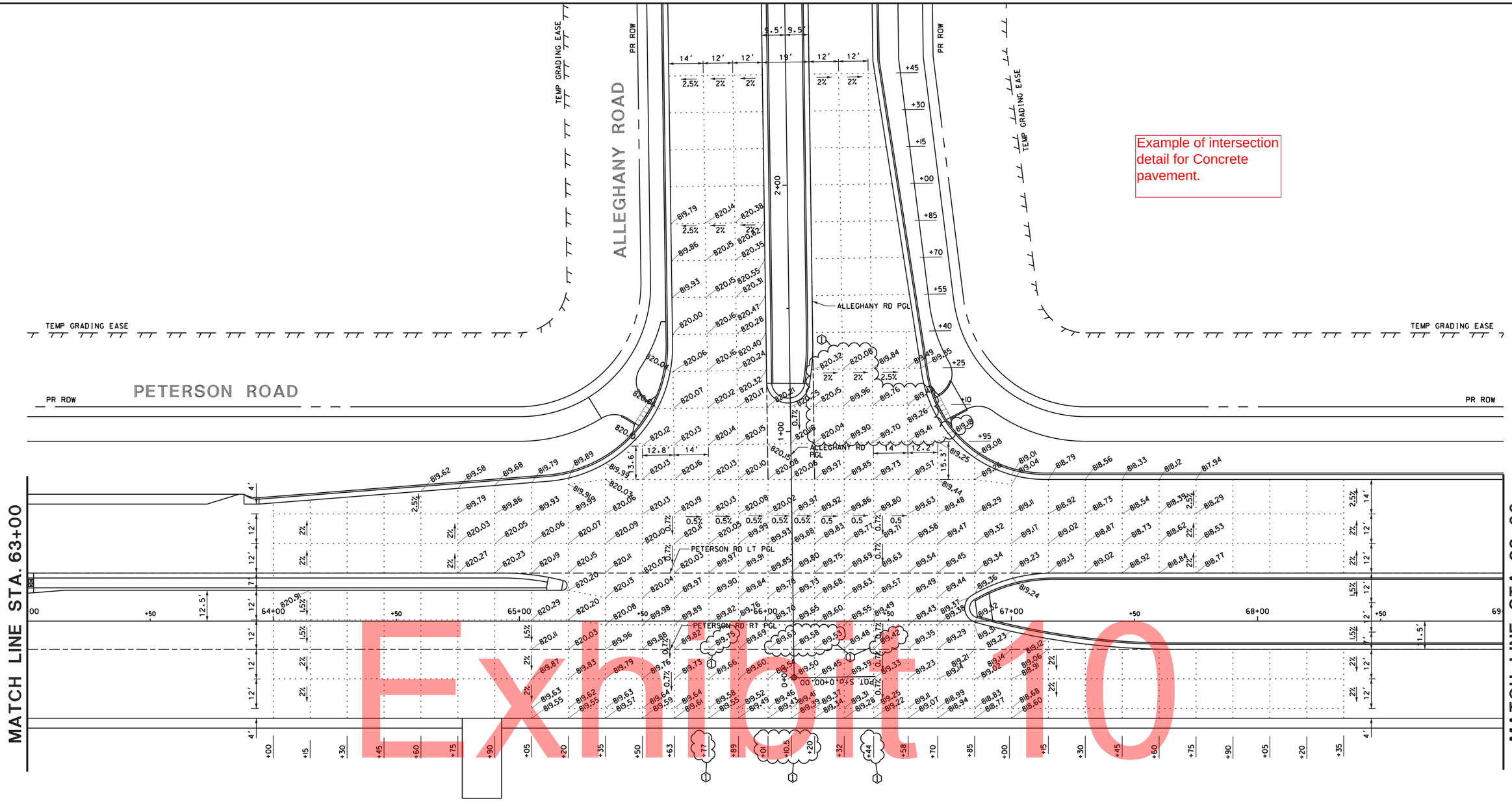


Exhibit 10

NOTES:

1. SEE CURB RAMP DETAILS FOR EDGE OF PAVEMENT GRADES NEAR CURB RAMPS.

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
1	CONSTRUCTION REVISION	04/29/15	MCW	DSGNR/LIAISON:	
		/ /		PLOTTED BY:	mworman4/29/2015

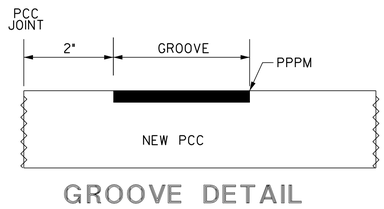
SCALES
HORIZ.
0 20 40

LakeCounty
Division of Transportation

INTERSECTION PAVING PLAN
PETERSON AT ALLEGHANY

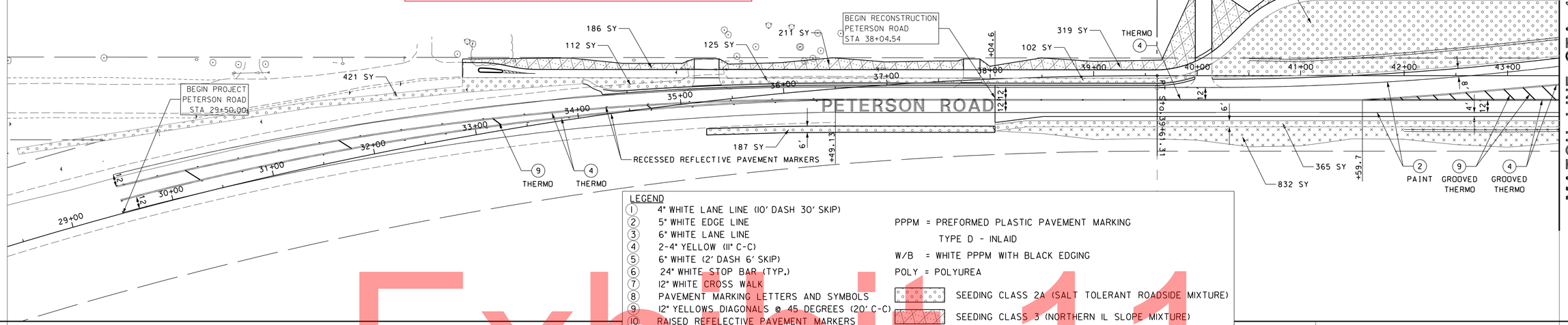
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH20	098	10-00098-19-RP	172	453

FILE NAME: N:\LCDOT\140148.0001A\Civil\140148_Plan_Int_Sheet.dgn



GROOVE DETAIL

Example of a plan set with too much information on the plan & profile sheets and varied landscaping requiring separate sheets.



LEGEND

1. 4" WHITE LANE LINE (10' DASH 30' SKIP)
2. 5" WHITE EDGE LINE
3. 6" WHITE LANE LINE
4. 2-4" YELLOW (11" C-C)
5. 6" WHITE (2' DASH 6' SKIP)
6. 24" WHITE STOP BAR (TYP.)
7. 12" WHITE CROSS WALK
8. PAVEMENT MARKING LETTERS AND SYMBOLS
9. 12" YELLOWS DIAGONALS @ 45 DEGREES (20' C-C)
10. RAISED REFELECTIVE PAVEMENT MARKERS
11. 4" YELLOW EDGE LINE
12. 4" WHITE EDGE LINE
13. 10' YELLOW MEDIAN NOSE*
14. YELLOW CURB*
15. 12" WHITE CHEVRONS (MIN 5 EACH)
16. 12" YELLOWS DIAGONALS @ 45 DEGREES (75' C-C)

PPPM = PREFORMED PLASTIC PAVEMENT MARKING TYPE D - INLAID

W/B = WHITE PPPM WITH BLACK EDGING

POLY = POLYUREA

SEEDING CLASS 2A (SALT TOLERANT ROADSIDE MIXTURE)

SEEDING CLASS 3 (NORTHERN IL SLOPE MIXTURE)

SEEDING CLASS 4A (LOW PROFILE NATIVE GRASS)

INFILTRATION DITCHES (SEE DETAIL)

*PAID FOR AS POLYUREA MEDIAN PAINT

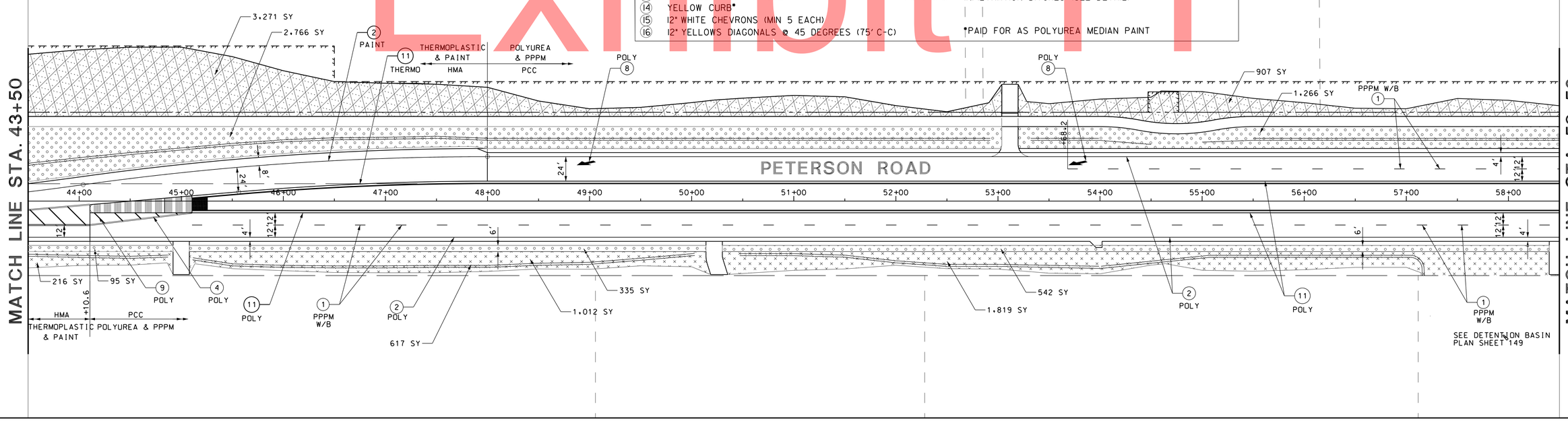


Exhibit 11

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	mmcghee2/25/2015

SCALES HORIZ. 0 50 100

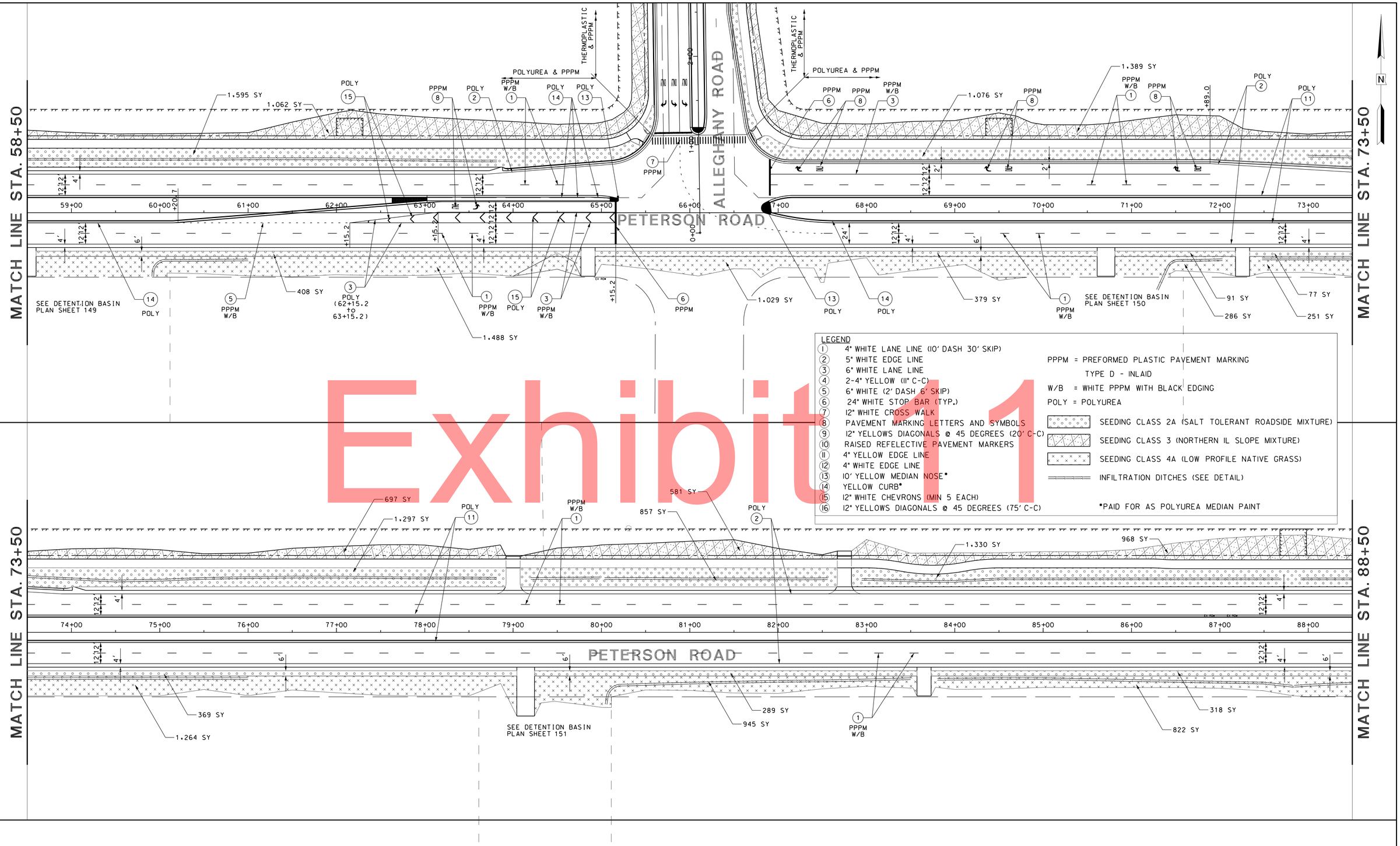
LakeCounty Division of Transportation

PETERSON ROAD PAVEMENT MARKING & LANDSCAPING PLAN

PLAN OVER PLAN STA. 29+50.00 TO STA. 58+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH20	098	10-00098-19-RP	141	453

FILE NAME: N:\LCDOT\140148.0001A\Civil\140148_Plan_PavementMarking_Sheet_1.dgn



LEGEND

1. 4" WHITE LANE LINE (10' DASH 30' SKIP)
2. 5" WHITE EDGE LINE
3. 6" WHITE LANE LINE
4. 2-4" YELLOW (11" C-C)
5. 6" WHITE (2' DASH 6' SKIP)
6. 24" WHITE STOP BAR (TYP.)
7. 12" WHITE CROSS WALK
8. PAVEMENT MARKING LETTERS AND SYMBOLS
9. 12" YELLOWS DIAGONALS @ 45 DEGREES (20' C-C)
10. RAISED REFELECTIVE PAVEMENT MARKERS
11. 4" YELLOW EDGE LINE
12. 4" WHITE EDGE LINE
13. 10' YELLOW MEDIAN NOSE*
14. YELLOW CURB*
15. 12" WHITE CHEVRONS (MIN 5 EACH)
16. 12" YELLOWS DIAGONALS @ 45 DEGREES (75' C-C)

PPPM = PREFORMED PLASTIC PAVEMENT MARKING TYPE D - INLAID
W/B = WHITE PPPM WITH BLACK EDGING
POLY = POLYUREA

SEEDING CLASS 2A (SALT TOLERANT ROADSIDE MIXTURE)
SEEDING CLASS 3 (NORTHERN IL SLOPE MIXTURE)
SEEDING CLASS 4A (LOW PROFILE NATIVE GRASS)
INFILTRATION DITCHES (SEE DETAIL)

*PAID FOR AS POLYUREA MEDIAN PAINT

Exhibit 1

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	mmcghee2/25/2015

SCALES
HORIZ.
0 50 100

LakeCounty
Division of Transportation

PETERSON ROAD PAVEMENT MARKING & LANDSCAPING PLAN
PLAN OVER PLAN STA. 58+50.00 TO STA. 88+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH20	098	10-00098-19-RP	142	453

FILE NAME: N:\LCDOT\140148.000IA\Civil\140148_Plan_PavementMarking_Sheet_2.dgn

ROUTE	SECTION	COUNTY	SHEET	SHEETS
CH	034	LAKE	34	107
02-00034-01-BT		ILLINOIS	DEERFIELD ROAD	

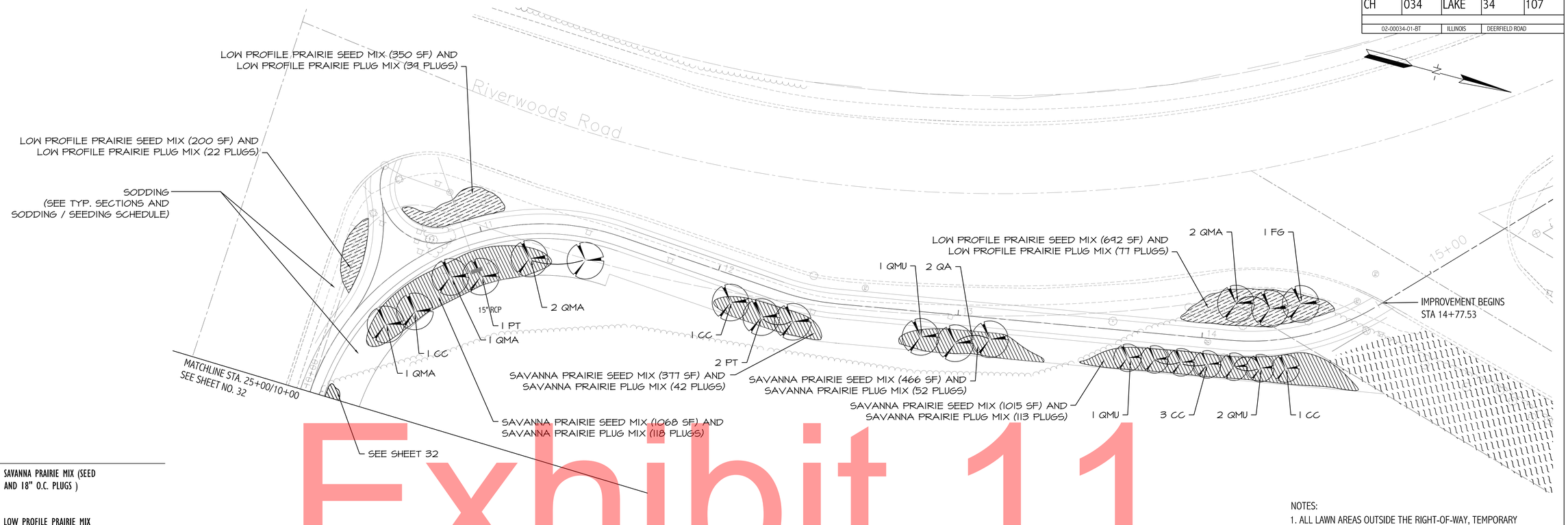


Exhibit 11

LEGEND

- SAVANNA PRAIRIE MIX (SEED AND 18" O.C. PLUGS)
- LOW PROFILE PRAIRIE MIX (SEED AND 18" O.C. PLUGS)
- WET PRAIRIE/SWALE MIX (SEED AND 18" O.C. PLUGS)
- SHRUB PLANTING MIX (30" O.C. RANDOM SIZED SINGLE SPECIES GROUPS OF 3-15)
- SLOPE STABILIZATION MIX (SEEDED AREA WITH SHRUB PLANTING MIX OVERPLANTING- SEE ABOVE)
- EXISTING VEGETATION TO REMAIN
- 2 XX PLANT QUANITY/NAME

Example of a landscaping plan developed by a Landscape Architect sub-consultant.

SCHEDULE OF PLANTS

Trees

Code No.	Sym	Scientific Name	Qty	Unit	Size	Notes
LC000488	AR	Alnus rugosa (A. incana spp. rugosa) / Speckled Alder, 12' Clump Form B+B	6	EA	12' Ht Clump	Natural Form
A2002612	CC	Carya cordiformis / Bitternut Hickory, 1½" Caliper	10	EA	1½" Cal	Natural Form
LC000489	FG	Fagus grandifolia / American Beech, 12' B+B	6	EA	12' Ht	Natural Form
A2005560	NS	Nyssa sylvatica / Black Tupelo, 8' Ht. B+B	4	EA	8' Ht	Natural Form
A2006270	PT	Populus tremuloides / Quaking Aspen, 8' Ht. B+B	3	EA	8' Ht	Natural Form
A2006568	QB	Quercus bicolor / Swamp White Oak, 7' Ht. B+B	3	EA	7' Ht	Natural Form
A2006416	QA	Quercus alba / White Oak, 2" Caliper	4	EA	2" Cal	Natural Form
A2006720	QMA	Quercus macrocarpa / Bur Oak, 2½" Caliper	7	EA	2½" Cal	Natural Form
A2006820	QMU	Quercus muehlenbergii / Chinkapin Oak, 2½" Caliper	4	EA	2½" Cal	Natural Form
A2007120	QR	Quercus rubra / Northern Red Oak, 2½" Caliper	4	EA	2½" Cal	Natural Form

Shrub Planting Mix

Code No.		Scientific Name	% of mix	Qty	Unit	Size	Notes
C2002036		Corylus americana / American Filbert, 3' Ht. B+B	15%	146	EA	3' B&B	3' O.C.
C2003436		Hydrangea arborescens "Annabelle" / Annabelle Smooth Hydangea, 3' Ht. B+B	10%	97	EA	3' B&B	3' O.C.
C2003936		Ilex verticillata "Winter Red" / Winter Red Winterberry, 3' Ht. B+B	10%	97	EA	3' B&B	3' O.C.
C2004736		Physocarpus opulifolius / Eastern Ninebark, 3' Ht. B+B	10%	97	EA	3' B&B	3' O.C. Use Species Form, not variety "Snowfall"
C2005336		Prunus americana / American Plum, 3' Ht. B+B	10%	97	EA	3' B&B	3' O.C.
C2006036		Rhus typhina/ Staghorn Sumac, 3' Ht. B+B	25%	245	EA	3' B&B	3' O.C.
C2009418		Salix humilis / Prairie Willow, 18" Ht. B+B	5%	48	EA	18" B&B	3' O.C.
LC000487		Viburnum acerifolium / Maple Leafed Arrowwood, 3' Ht. B+B	15%	146	EA	3' B&B	3' O.C.

Native Plug Planting Mixes (see specs)

Code No.		Mix Name	Qty	Unit	Size	Notes
LC000486		Perennial Planting, Savanna Prairie Plug Mix @ 3'-0" O.C. (0.111 plants/SF)	884	SF	2.5" Plug	3'-0" O.C. Triangular Spacing
LC000485		Perennial Planting, Low Profile Prairie Plug Mix @ 3'-0" O.C. (0.111 plants/SF)	549	SF	2.5" Plug	3'-0" O.C. Triangular Spacing
LC000484		Perennial Planting, Wet Prairie/Swale Perennial Plug Mix @ 3'-0" O.C. (0.111 plants/SF)	1026	SF	2.5" Plug	3'-0" O.C. Triangular Spacing

Native Seed Mixes (see specs)

Code No.		Mix Name	Qty	Unit		Notes
LC000483		Seeding, Savanna Prairie Seed Mix	7956	SF		
LC000481		Seeding, Low-profile Prairie Seed Mix	4940	SF		
LC000480		Seeding, Wet Prairie/Swale Seed Mix	9240	SF		
LC000482		Seeding, Slope Stabilization Seed Mix	6512	SF		

NOTES:

1. ALL LAWN AREAS OUTSIDE THE RIGHT-OF-WAY, TEMPORARY EASEMENTS AND/OR PERMANENT EASEMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S COST.

2. ALL AREAS WITHIN THE RIGHT-OF-WAY, TEMPORARY EASEMENTS, AND/OR PERMANENT EASEMENTS NOT OTHERWISE INDICATED TO BE PAVED, PLANTED, SEEDED, OR EXISTING VEGETATION TO REMAIN, SHALL BE SEEDED WITH SALT TOLERANT ROADSIDE MIX,(AREAS DESIGNATED AS "SEEDING").

3. SEE OTHER NON-LANDSCAPE DRAWINGS AND SPEC SECTIONS FOR TOPSOIL AND SALT TOLERANT SEED/SOD REQUIREMENTS OVER GRADED AREAS.

4. ALL SAVANNA, LOW-PROFILE PRAIRIE, SWALE AND SLOPE STABILIZATION SEED MIX AREAS SHALL HAVE AT LEAST ONE (1) "NO MOWING" SIGNS PLACED WITHIN EACH SUCH CONTIGUOUS PLANTING AREA (TOTAL OF APPROXIMATELY 30 SIGNS). THE COST OF SUCH SIGNS SHALL BE INCIDENTAL TO THE COST OF THE SEED MIX FOR SAID AREAS. LOCATIONS TO BE AS DIRECTED BY THE ENGINEER.

Soodan
Soodan & Associates, Inc.
Architects, Engineers & Construction Consultants
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602
Tel: 312/553-0003 Fax: 312/553-1006
E-Mail: Transportation@Soodan.com

Land Design Collaborative incorporated
5142 Main Street
Skokie, Illinois 60077
(847) 329-9777
Fax (847) 329-9779
kirk@landdesigncollaborative.com

REVISIONS	
NAME	DATE

LANDSCAPE PLAN

DEERFIELD ROAD BIKE PATH

SCALE: 1" = 20'
DATE: SEPTEMBER 2007

DRAWN BY: JB
CHECKED BY: RZ

ROUTE	SECTION	COUNTY	SHEET	SHEETS
CH	034	LAKE	35	107
02-00034-01-BT		ILLINOIS	DEERFIELD ROAD	

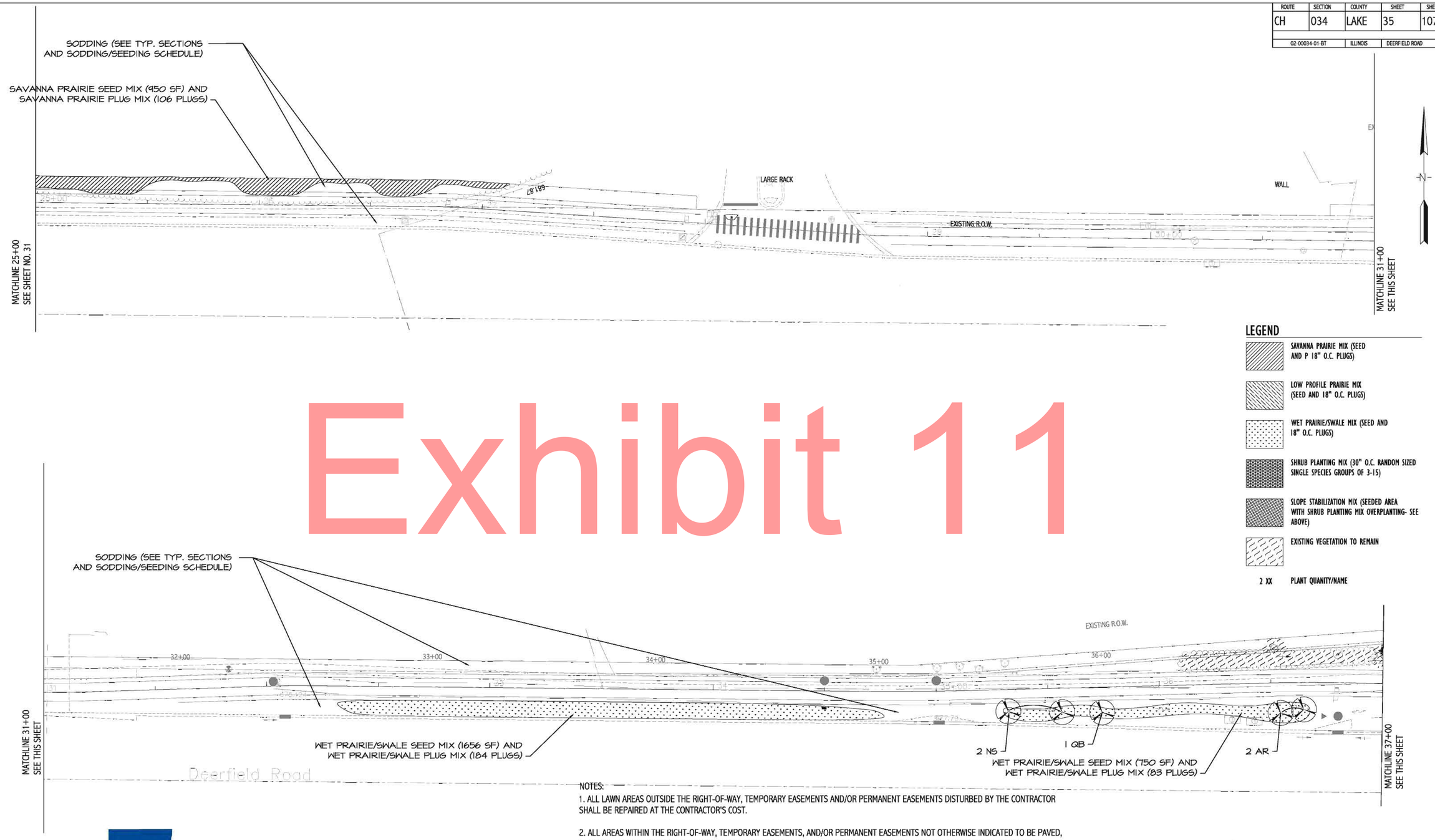


Exhibit 11

LEGEND

- SAVANNA PRAIRIE MIX (SEED AND P 18" O.C. PLUGS)
- LOW PROFILE PRAIRIE MIX (SEED AND 18" O.C. PLUGS)
- WET PRAIRIE/SWALE MIX (SEED AND 18" O.C. PLUGS)
- SHRUB PLANTING MIX (30" O.C. RANDOM SIZED SINGLE SPECIES GROUPS OF 3-15)
- SLOPE STABILIZATION MIX (SEEDED AREA WITH SHRUB PLANTING MIX OVERPLANTING- SEE ABOVE)
- EXISTING VEGETATION TO REMAIN
- 2 XX PLANT QUANITY/NAME

NOTES:

1. ALL LAWN AREAS OUTSIDE THE RIGHT-OF-WAY, TEMPORARY EASEMENTS AND/OR PERMANENT EASEMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S COST.

2. ALL AREAS WITHIN THE RIGHT-OF-WAY, TEMPORARY EASEMENTS, AND/OR PERMANENT EASEMENTS NOT OTHERWISE INDICATED TO BE PAVED, PLANTED, SEEDED, OR EXISTING VEGETATION TO REMAIN, SHALL BE SEEDED WITH SALT TOLERANT ROADSIDE MIX,(AREAS DESIGNATED AS "SEEDING").

3. SEE OTHER NON-LANDSCAPE DRAWINGS AND SPEC SECTIONS FOR TOPSOIL AND SALT TOLERANT SEED/SOD REQUIREMENTS OVER GRADED AREAS.

4. ALL SAVANNA, LOW-PROFILE PRAIRIE, SWALE AND SLOPE STABILIZATION SEED MIX AREAS SHALL HAVE AT LEAST ONE (1) "NO MOWING" SIGNS PLACED WITHIN EACH SUCH CONTIGUOUS PLANTING AREA (TOTAL OF APPROXIMATELY 30 SIGNS). THE COST OF SUCH SIGNS SHALL BE INCIDENTAL TO THE COST OF THE SEED MIX FOR SAID AREAS. LOCATIONS TO BE AS DIRECTED BY THE ENGINEER.

Soodan
Soodan & Associates, Inc.
Architects, Engineers & Construction Consultants
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602
Tel: 312/553-0003 Fax: 312/553-1006
E-Mail: Transportation@Soodan.com

Land Design Collaborative incorporated
5142 Main Street
Skokie, Illinois 60077
(847) 329-9777
Fax: (847) 329-9779

REVISIONS	
NAME	DATE

35 OF 107

LANDSCAPE PLAN

DEERFIELD ROAD BIKE PATH

SCALE: 1" = 20'
DATE: September 2007

DRAWN BY: JB
CHECKED BY: RZ

ROUTE	SECTION	COUNTY	SHEET	SHEETS
CH	034	LAKE	36	107
02-00034-01-BT	ILLINOIS	DEERFIELD ROAD		

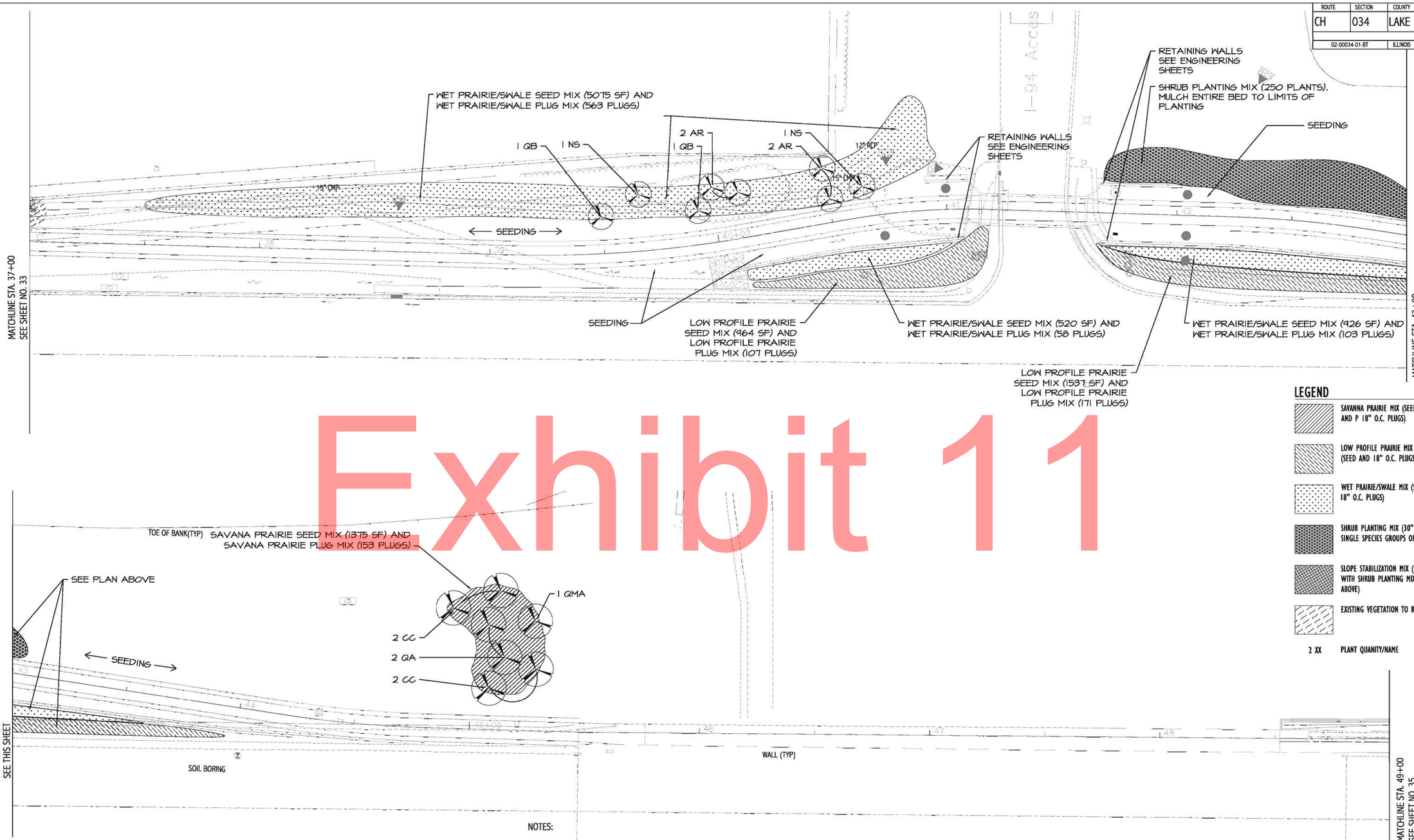


Exhibit 11

LEGEND

- SAVANNA PRAIRIE MIX (SEED AND P 18" O.C. PLUGS)
- LOW PROFILE PRAIRIE MIX (SEED AND 18" O.C. PLUGS)
- WET PRAIRIE/SWALE MIX (SEED AND 18" O.C. PLUGS)
- SHRUB PLANTING MIX (30" O.C. RANDOM SIZED SINGLE SPECIES GROUPS OF 3-15)
- SLOPE STABILIZATION MIX (SEEDED AREA WITH SHRUB PLANTING MIX OVERPLANTING- SEE ABOVE)
- EXISTING VEGETATION TO REMAIN
- 2 XX PLANT QUANITY/NAME

NOTES:

1. ALL LAWN AREAS OUTSIDE THE RIGHT-OF-WAY, TEMPORARY EASEMENTS AND/OR PERMANENT EASEMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S COST.

2. ALL AREAS WITHIN THE RIGHT-OF-WAY, TEMPORARY EASEMENTS, AND/OR PERMANENT EASEMENTS NOT OTHERWISE INDICATED TO BE PAVED, PLANTED, SEEDED, OR EXISTING VEGETATION TO REMAIN, SHALL BE SEEDED WITH SALT TOLERANT ROADSIDE MIX,(AREAS DESIGNATED AS "SEEDING").

3. SEE OTHER NON-LANDSCAPE DRAWINGS AND SPEC SECTIONS FOR TOPSOIL AND SALT TOLERANT SEED/SOD REQUIREMENTS OVER GRADED AREAS.

4. ALL SAVANNA, LOW-PROFILE PRAIRIE, SWALE AND SLOPE STABILIZATION SEED MIX AREAS SHALL HAVE AT LEAST ONE (1) "NO MOWING" SIGNS PLACED WITHIN EACH SUCH CONTIGUOUS PLANTING AREA (TOTAL OF APPROXIMATELY 30 SIGNS). THE COST OF SUCH SIGNS SHALL BE INCIDENTAL TO THE COST OF THE SEED MIX FOR SAID AREAS. LOCATIONS TO BE AS DIRECTED BY THE ENGINEER.

Soodan
Soodan & Associates, Inc.
Architects, Engineers & Construction Consultants
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602
Tel: 312/553-0003 Fax: 312/553-1006
E-Mail: Transportation@Soodan.com

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REVISIONS	
NAME	DATE

36 OF 107

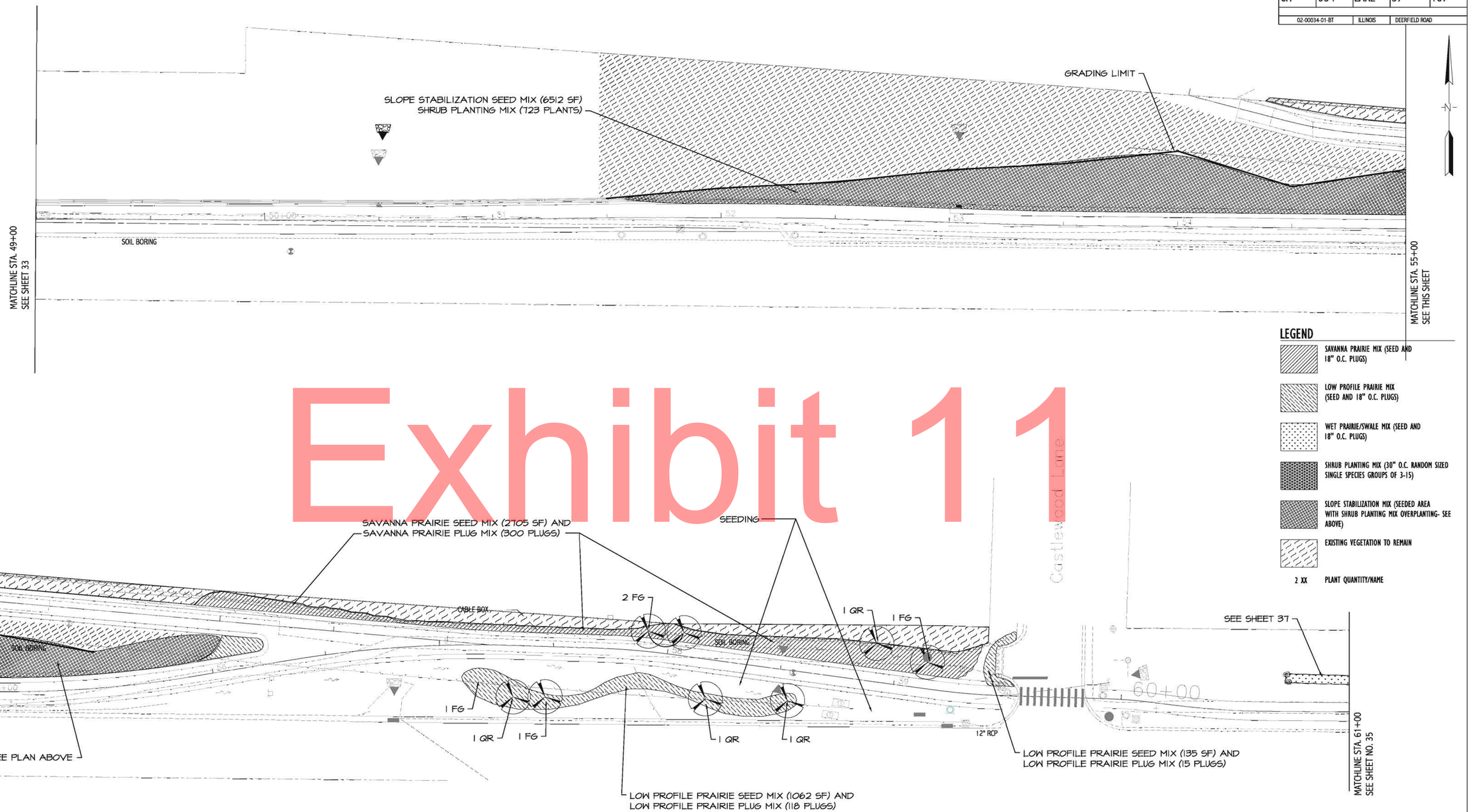
LANDSCAPE PLAN

DEERFIELD ROAD BIKE PATH

SCALE: 1" = 20'
DATE: SEPTEMBER 2007

DRAWN BY: JB
CHECKED BY: RZ

ROUTE	SECTION	COUNTY	SHEET	SHEETS
CH	034	LAKE	37	107
02-00034-01-BT		ILLINOIS	DEERFIELD ROAD	



LEGEND

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REVISIONS	
NAME	DATE

37 OF 107

LANDSCAPE PLAN

DEERFIELD ROAD BIKE PATH

SCALE: 1" = 20'
DATE: SEPTEMBER 2007

DRAWN BY: JB
CHECKED BY: RZ

ROUTE	SECTION	COUNTY	SHEET	SHEETS
CH	034	LAKE	38	107
02-00034-01-BT		ILLINOIS	DEERFIELD ROAD	

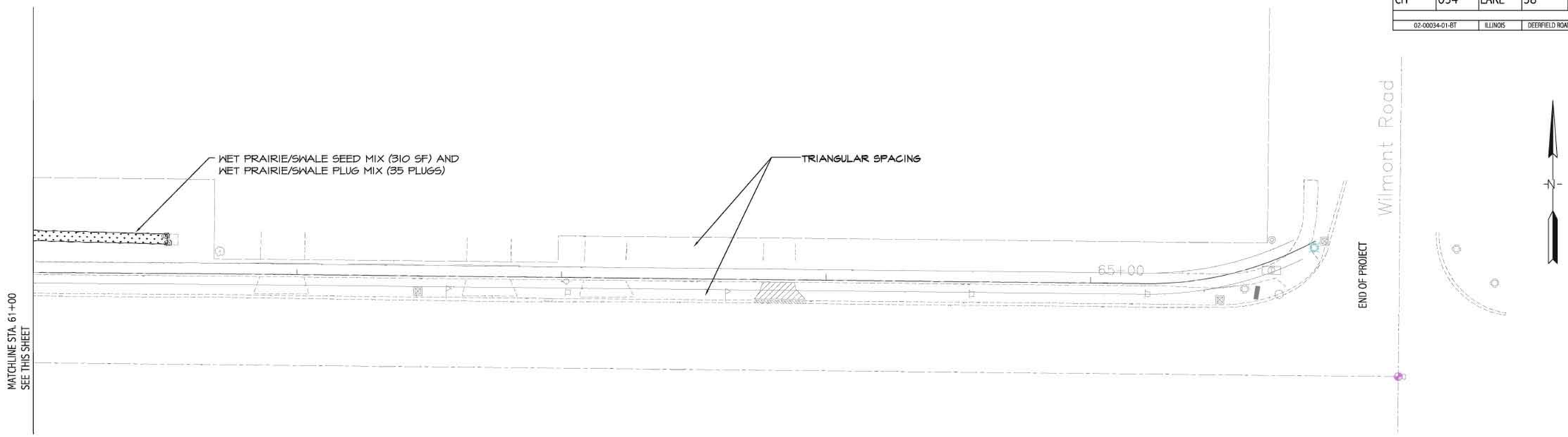
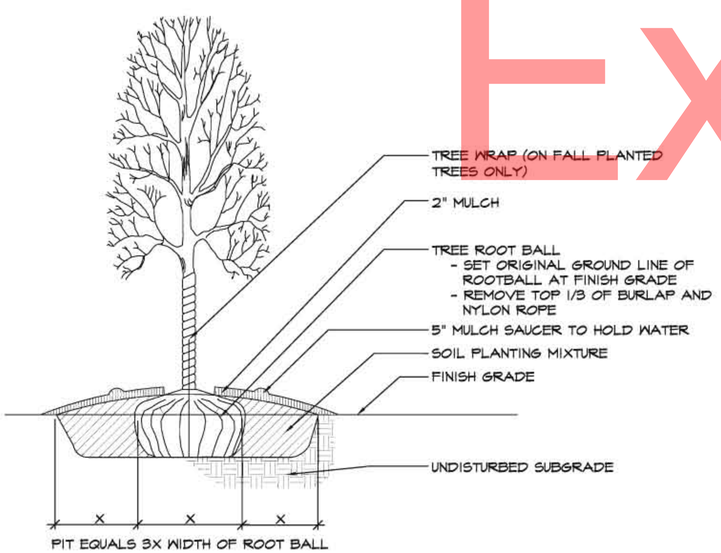
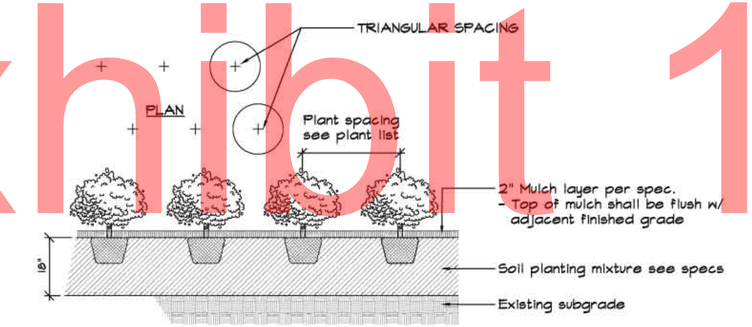


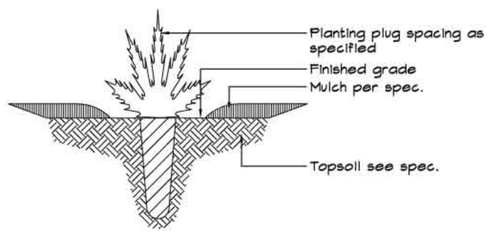
Exhibit 1



1 **Tree Planting Detail**
Scale: 1/4" = 1'-0"



2 **Shrub Planting Detail**
Scale: N.T.S.



3 **Plug Planting Detail**
Scale: N.T.S.

NOTES:

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LEGEND

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- EXISTING VEGETATION TO REMAIN
- 2 XX PLANT QUANTITY/NAME

Note the individual planting details provided.

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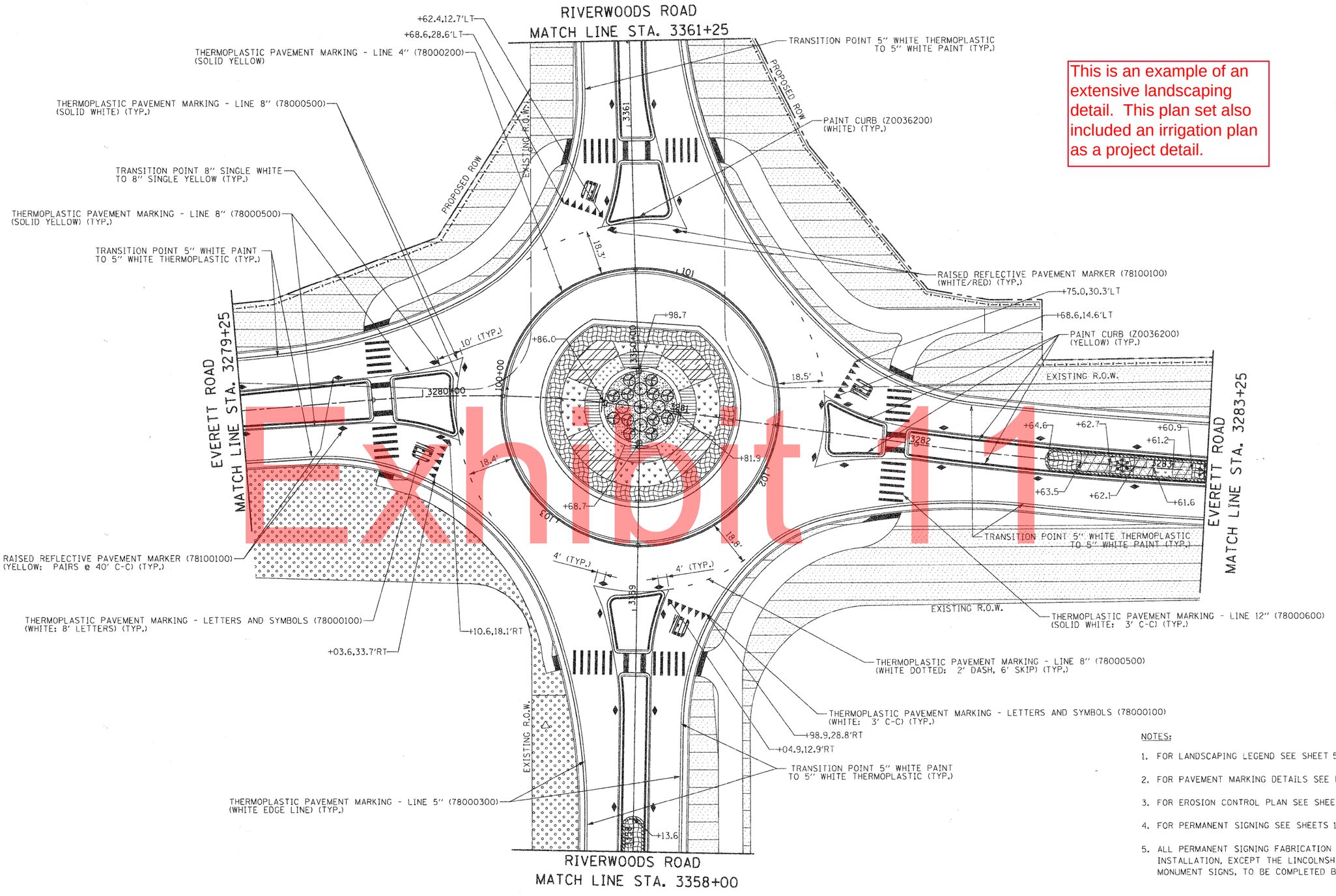
REVISIONS	
NAME	DATE

LANDSCAPE PLAN

DEERFIELD ROAD BIKE PATH

SCALE: 1" = 20'
DATE: SEPTEMBER 2007

DRAWN BY: JB
CHECKED BY: RZ



This is an example of an extensive landscaping detail. This plan set also included an irrigation plan as a project detail.

Exhibit 11

NOTES:

1. FOR LANDSCAPING LEGEND SEE SHEET 58 .
2. FOR PAVEMENT MARKING DETAILS SEE DETAIL LC7804.
3. FOR EROSION CONTROL PLAN SEE SHEET 28 .
4. FOR PERMANENT SIGNING SEE SHEETS 102 AND 103 .
5. ALL PERMANENT SIGNING FABRICATION AND INSTALLATION, EXCEPT THE LINCOLNSHIRE MONUMENT SIGNS, TO BE COMPLETED BY LCDOT.

63415

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	DESIGNED BY:	JRM
		/ /		CHECKED BY:	MPK/JLC
		/ /		DATE:	1/22/2010

SCALE 0 20 40

HDR Engineering, Inc. — 30 N LaSalle Street, Suite 3220, Chicago, IL 60602, 312-443-4900

LakeCounty Division of Transportation

ROUNDABOUT

PAVEMENT MARKING AND LANDSCAPING PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
58/52	136	04-00136-06-CH	61	107

FILE NAME: $FILE$

NOTES FOR TEMPORARY TRAFFIC SIGNALS:

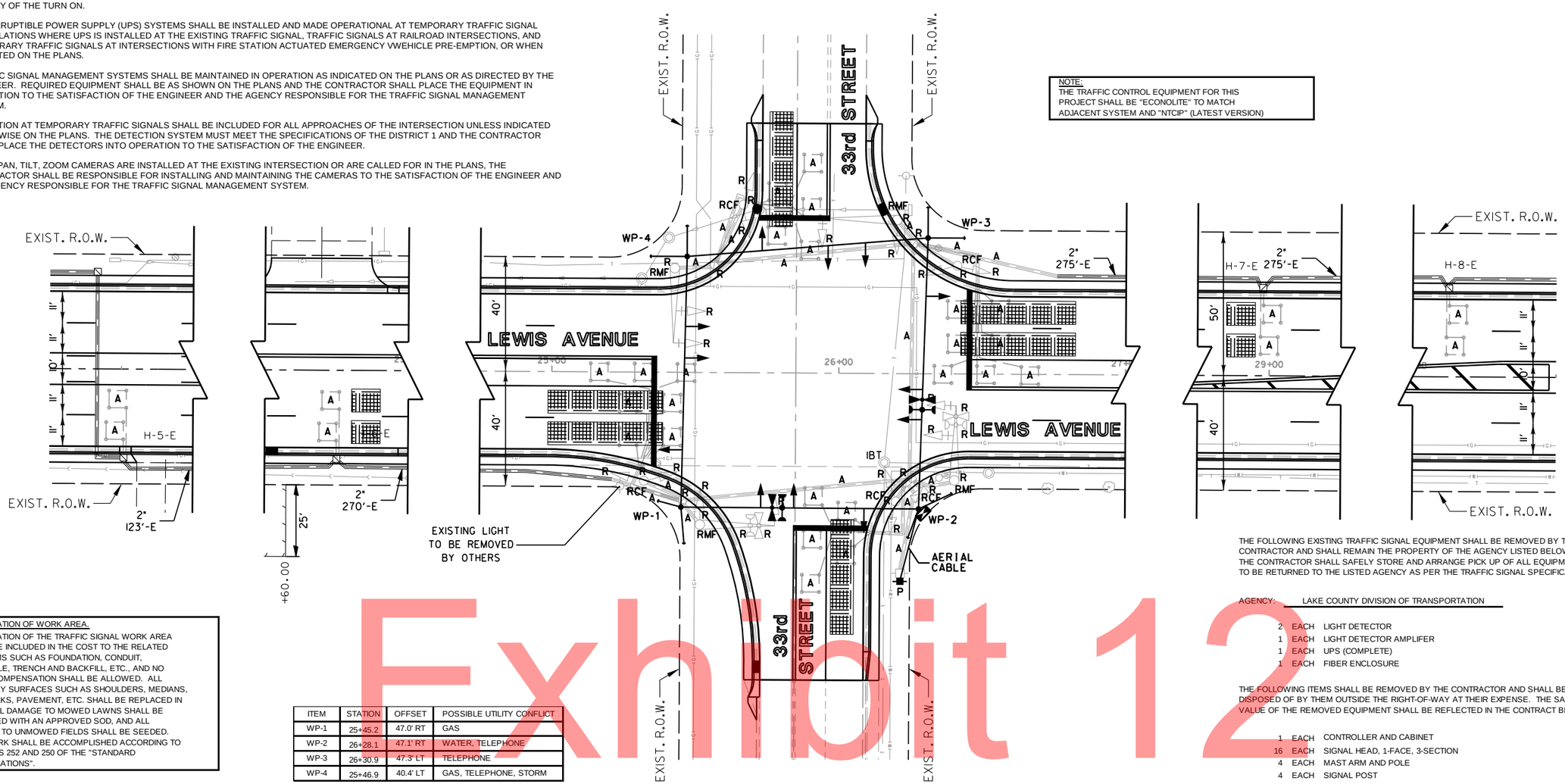
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROLLER EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VWEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF THE DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

SCALE: 1"=40'

Example of new signals replacing existing signals; conversion from loops (abandonded) to autoscope and installation of interconnect.

For additional guidance see the Design Guidance for LCDOT Traffic Plans.

NOTE:
THE TRAFFIC CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM AND "NTCIP" (LATEST VERSION)



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: LAKE COUNTY DIVISION OF TRANSPORTATION

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFER
1	EACH	UPS (COMPLETE)
1	EACH	FIBER ENCLOSURE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET
16	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	MAST ARM AND POLE
4	EACH	SIGNAL POST
1	EACH	SERVICE INSTALLATION

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST TO THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. THIS WORK SHALL BE ACCOMPLISHED ACCORDING TO SECTIONS 252 AND 250 OF THE "STANDARD SPECIFICATIONS".

ITEM	STATION	OFFSET	POSSIBLE UTILITY CONFLICT
WP-1	25+45.2	47.0' RT	GAS
WP-2	26+28.1	47.1' RT	WATER, TELEPHONE
WP-3	26+30.9	47.3' LT	TELEPHONE
WP-4	25+46.9	40.4' LT	GAS, TELEPHONE, STORM

Exhibit 12

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

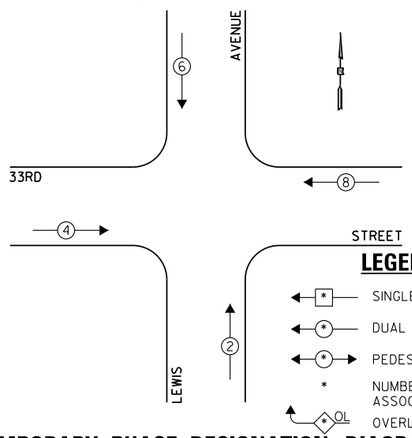
LEWIS AVENUE RESURFACING
TEMPORARY SIGNAL PLAN - LEWIS AVE at 33RD ST

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	73	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn

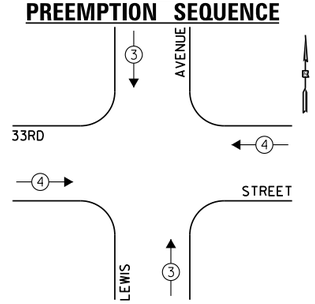
TEMPORARY CONTROLLER SEQUENCE

REFERING TO IDOT HIGHWAY STANDARD 857001.
THE VEHICULAR AND PEDESTRIAN PHASES
USED ARE DESIGNATED BELOW



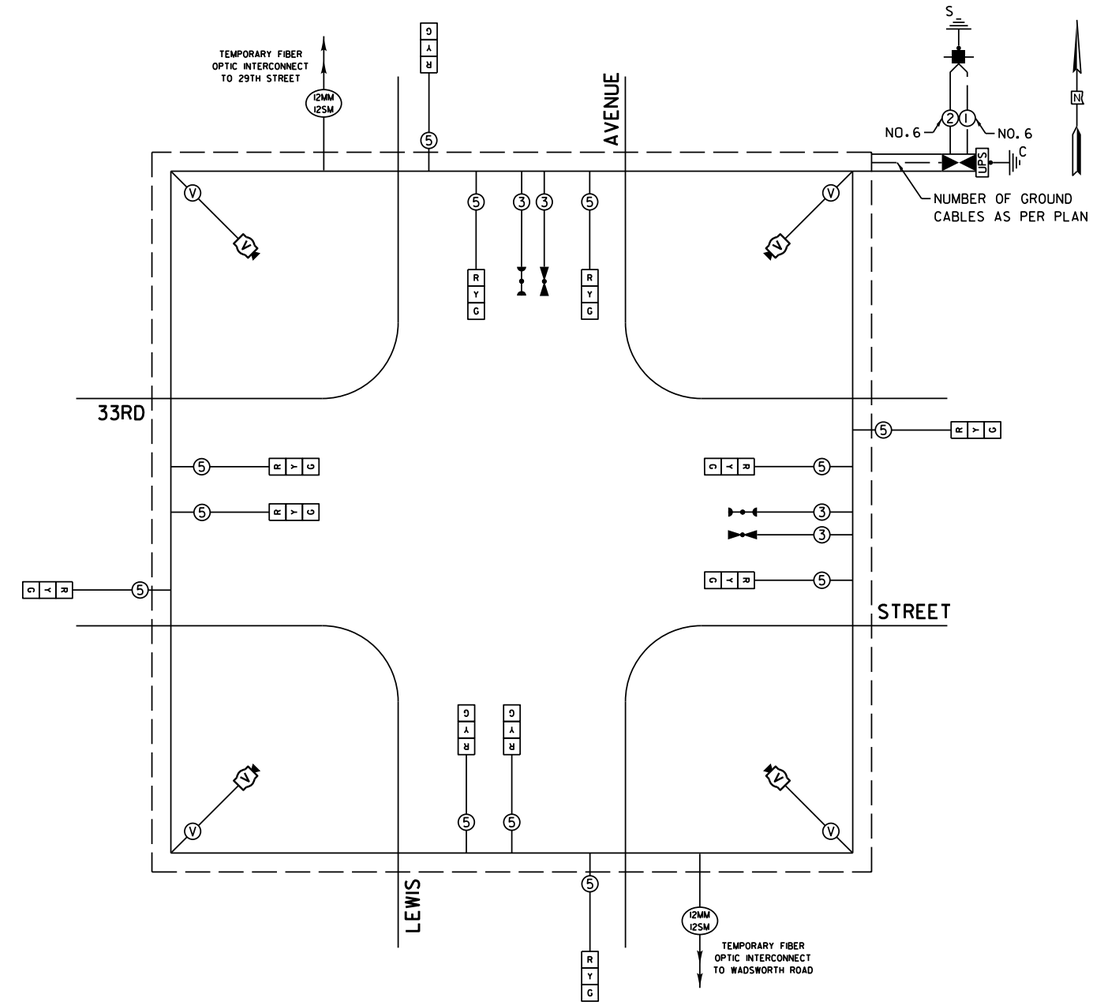
TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	→ ←

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN

L.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	10	0.50	60.0
SIGNAL (YELLOW)	12	135	19	0.10	22.8
SIGNAL (GREEN)	12	135	11	0.40	52.8
ARROW	--	135	9	0.10	--
PED. SIGNAL	--	90	9	1.00	--
CONTROLLER	1	--	100	1.00	100.0
LUMINAIRE	--	--	250	0.50	--
L.E.D. ST. NAME SIGN	--	--	64	0.50	--
VIDEO SYSTEM	1	--	150	1.00	150.0
BATTERY BACKUP	1	--	25	1.00	25.0
ILLUMINATED SIGN	--	--	25	0.05	--
				TOTAL=	410.6

ENERGY COSTS - BILLED TO: CITY OF ZION
ADDRESS: 3220 27TH STREET
ZION, IL 60099
ACCOUNT # 1853028048

ENERGY SUPPLY - CONTACT: MS. TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COM-ED LIBERTYVILLE

NOTE:
THE TRAFFIC CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM AND "NTCIP" (LATEST VERSION)

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST TO THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. THIS WORK SHALL BE ACCOMPLISHED ACCORDING TO SECTIONS 252 AND 250 OF THE "STANDARD SPECIFICATIONS".

Exhibit 12

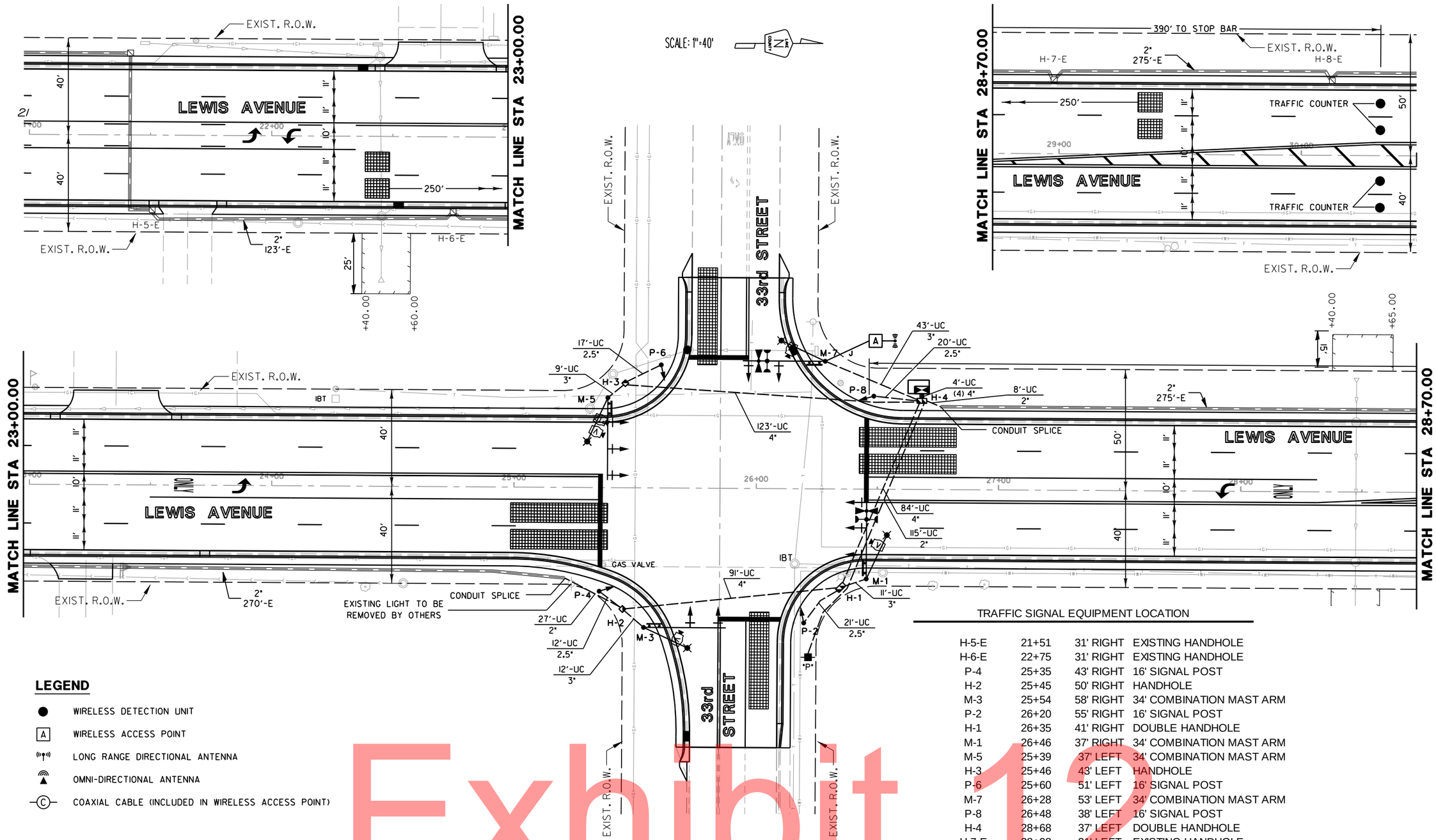
REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING
TEMPORARY CABLE PLAN - LEWIS AVE at 33RD ST

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	74	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn



LEGEND

- ● WIRELESS DETECTION UNIT
- [A] WIRELESS ACCESS POINT
- LONG RANGE DIRECTIONAL ANTENNA
- OMNI-DIRECTIONAL ANTENNA
- COAXIAL CABLE (INCLUDED IN WIRELESS ACCESS POINT)

NOTE:
THE TRAFFIC CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" (LATEST VERSION)

TRAFFIC SIGNAL EQUIPMENT LOCATION

H-5-E	21+51	31' RIGHT	EXISTING HANDHOLE
H-6-E	22+75	31' RIGHT	EXISTING HANDHOLE
P-4	25+35	43' RIGHT	16' SIGNAL POST
H-2	25+45	50' RIGHT	HANDHOLE
M-3	25+54	58' RIGHT	34' COMBINATION MAST ARM
P-2	26+20	55' RIGHT	16' SIGNAL POST
H-1	26+35	41' RIGHT	DOUBLE HANDHOLE
M-1	26+46	37' RIGHT	34' COMBINATION MAST ARM
M-5	25+39	37' LEFT	34' COMBINATION MAST ARM
H-3	25+46	43' LEFT	HANDHOLE
P-6	25+60	51' LEFT	16' SIGNAL POST
M-7	26+28	53' LEFT	34' COMBINATION MAST ARM
P-8	26+48	38' LEFT	16' SIGNAL POST
H-4	28+68	37' LEFT	DOUBLE HANDHOLE
H-7-E	28+98	31' LEFT	EXISTING HANDHOLE
H-8-E	30+13	31' LEFT	EXISTING HANDHOLE

NOTE:
COMBINATION MAST ARM(SPECIAL) WITH 20' LUMINAIRE ARM & 36" DIA. FOUNDATION

Exhibit 12

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
SIGNAL PLAN - LEWIS AVE at 33RD STREET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	75	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn

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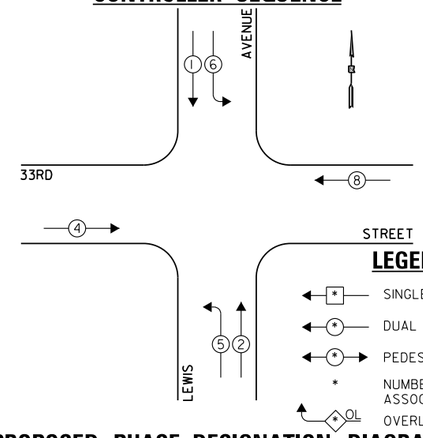
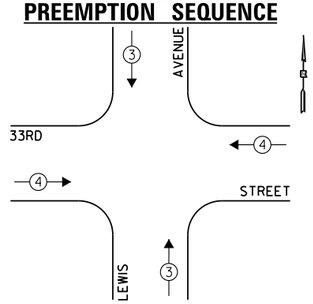


LEGEND:

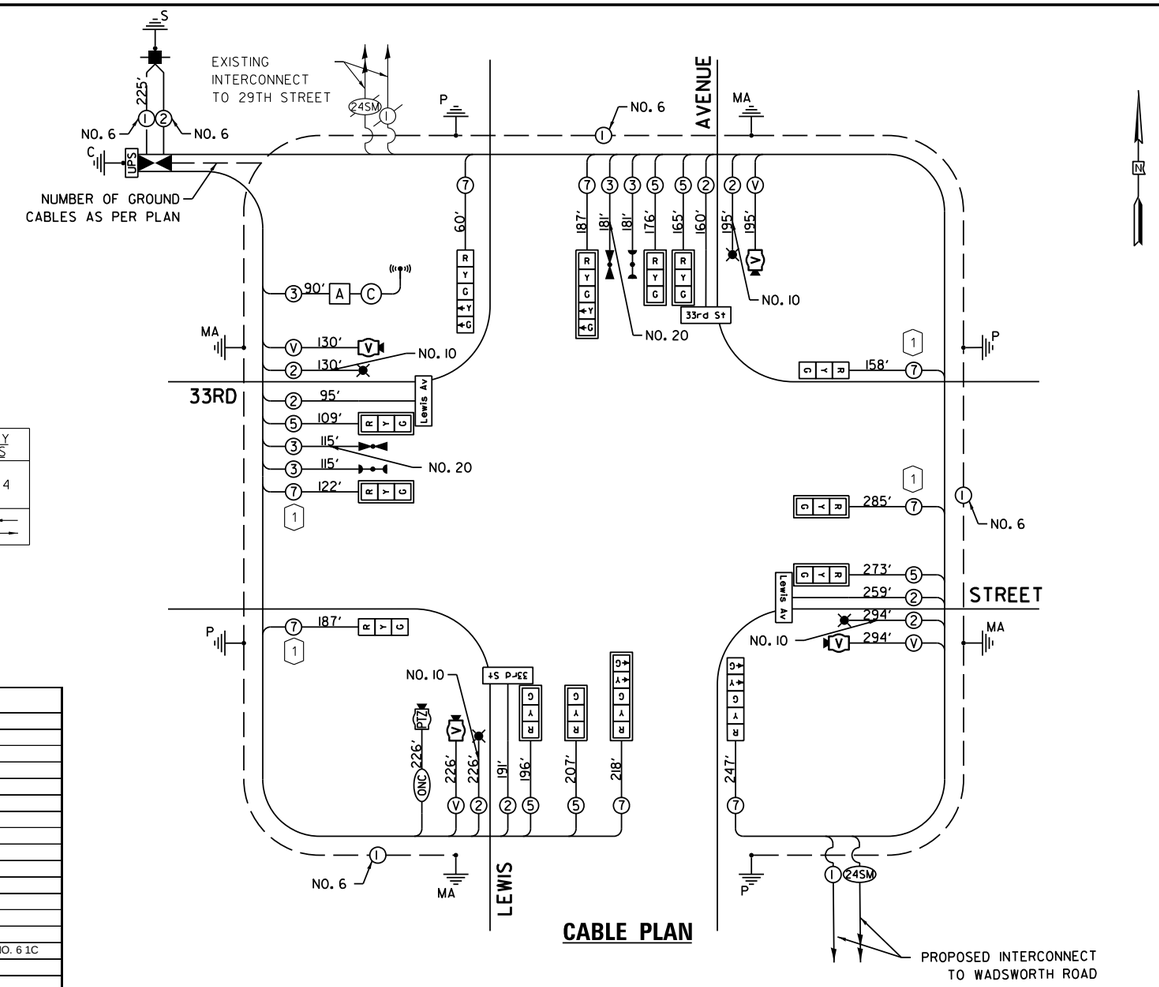
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	← →



CABLE PLAN

1 INSTALL 7C CABLE FOR FUTURE LEFT TURN PHASING

NOTE:
THE TRAFFIC CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" (LATEST VERSION)

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST TO THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. THIS WORK SHALL BE ACCOMPLISHED ACCORDING TO SECTIONS 252 AND 250 OF THE "STANDARD SPECIFICATIONS".

LEGEND

- ● WIRELESS DETECTION UNIT
- A WIRELESS ACCESS POINT
- LONG RANGE DIRECTIONAL ANTENNA
- OMNI-DIRECTIONAL ANTENNA
- C COAXIAL CABLE (INCLUDED IN TRAFFIC COUNTER)

SCHEDULE OF QUANTITIES

NO.	QUANTITY	UNIT	
1	1.0	EACH	SERVICE INSTALLATION - POLE MOUNTED
2	260.0	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
3	70.0	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
4	75.0	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
5	314.0	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
6	2.0	EACH	HANDHOLE
7	2.0	EACH	DOUBLE HANDHOLE
8	4.0	EACH	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT
9	705.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
10	386.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
11	1126.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
12	1464.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
13	225.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
14	766.0	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
15	16.0	FOOT	CONCRETE FOUNDATION, TYPE A
16	4.0	FOOT	CONCRETE FOUNDATION, TYPE C
17	60.0	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
18	8.0	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
19	2.0	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
20	2.0	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
21	2.0	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
22	10.0	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
23	2.0	EACH	LIGHT DETECTOR
24	1.0	EACH	LIGHT DETECTOR AMPLIFIER
25	1.0	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
26	1.0	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
27	4.0	EACH	REMOVE EXISTING HANDHOLE
28	8.0	EACH	REMOVE EXISTING FOUNDATION
29	845.0	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1/C NO. 10
30	296.0	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
31	1.0	EACH	TRAFFIC COUNTER
32	226.0	FOOT	OUTDOOR RATED NETWORK CABLE
33	2.0	EACH	CONDUIT SPLICE
34	1.0	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
35	1.0	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
36	4.0	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. (SPECIAL)
37	1.0	EACH	VIDEO DETECTION SYSTEM COMPLETE INTERSECTION
38	4.0	EACH	TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)
39	4.0	EACH	LED INTERNALLY ILLUMINATED STREET NAME SIGN
40	1.0	EACH	REMOTE CONTROLLED VIDEO SYSTEM
41	1.0	EACH	LAYER II (DATALINK) SWITCH
42	1.0	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

L.C.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	10	0.50	70.0
SIGNAL (YELLOW)	14	135	19	0.10	26.6
SIGNAL (GREEN)	14	135	11	0.40	61.6
ARROW	8	135	9	0.10	7.2
PED. SIGNAL	--	90	9	1.00	--
CONTROLLER	1	--	100	1.00	100.0
LUMINAIRE	4	--	250	0.50	500.0
L.E.D. ST. NAME SIGN	4	--	64	0.50	128.0
VIDEO SYSTEM	1	--	150	1.00	150.0
BATTERY BACKUP	1	--	25	1.00	25.0
ILLUMINATED SIGN	--	--	25	0.05	--
				TOTAL=	1068.4

ENERGY COSTS - BILLED TO: CITY OF ZION
ADDRESS: 3220 27TH STREET
ZION, IL 60099

ENERGY SUPPLY - CONTACT: MS. TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COM-ED LIBERTYVILLE

Exhibit 12

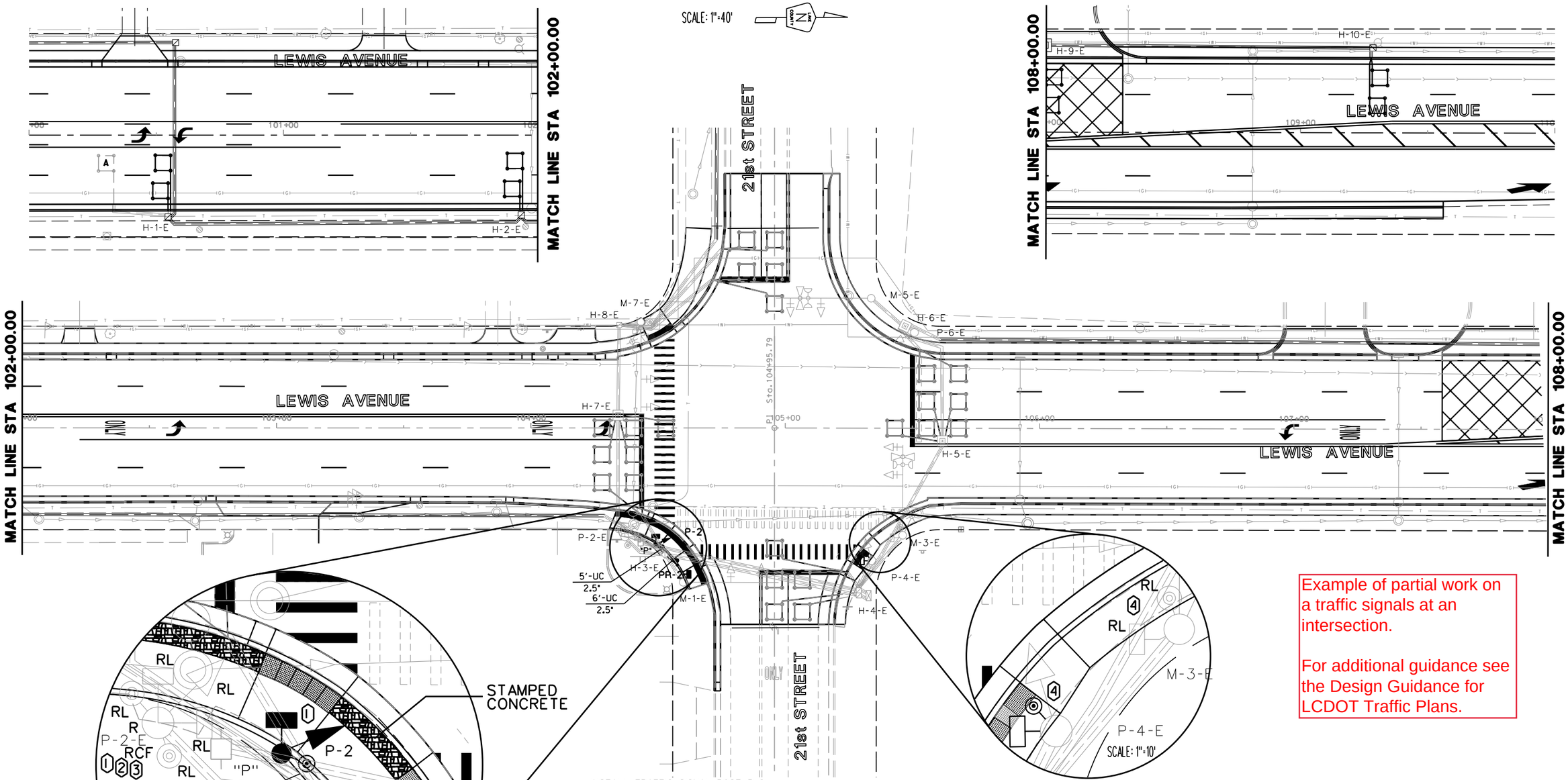
REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
CABLE PLAN - LEWIS AVE at 33RD SREET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	76	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn



Example of partial work on a traffic signals at an intersection.

For additional guidance see the Design Guidance for LCDOT Traffic Plans.

1. INSTALL TRAFFIC SIGNAL POST P-2
   RELOCATE SIGNAL HEAD, EAST-WEST PEDESTRIAN SIGNAL HEAD & PEDESTRIAN PUSH-BUTTON FROM P-2-E TO P-2.
2. RELOCATE NORTH-SOUTH PEDESTRIAN SIGNAL HEAD FROM P-2-E TO M-1-E
3. INSTALL PEDESTRIAN POST PP-2
   RELOCATE NORTH-SOUTH PEDESTRIAN PUSH-BUTTON FROM P-2-E TO PP-2
4. RELOCATE NORTH-SOUTH PEDESTRIAN PUSH-BUTTON & NORTH-SOUTH PEDESTRIAN SIGNAL HEAD FROM M-3-E TO P-4-E

TRAFFIC SIGNAL EQUIPMENT LOCATION

H-1-E	100+55	32' RIGHT	EXISTING HANDHOLE
H-2-E	101+94	31' RIGHT	EXISTING HANDHOLE
H-3-E	104+52	50' RIGHT	EXISTING HANDHOLE
P-2-E	104+37	43' RIGHT	EXISTING 16' SIGNAL POST - TO BE REMOVED
P-2	104+49	46' RIGHT	16' SIGNAL POST
PP-2	104+58	54' RIGHT	PEDESTRIAN PUSH BUTTON POST
M-1-E	104+60	61' RIGHT	EXISTING 36' COMBINATION MAST ARM
H-4-E	105+29	65' RIGHT	EXISTING DOUBLE HANDHOLE
P-4-E	105+34	52' RIGHT	EXISTING 16' SIGNAL POST
M-3-E	105+46	42' RIGHT	EXISTING 34' COMBINATION MAST ARM
H-5-E	105+62	5' RIGHT	EXISTING HEAVY DUTY HANDHOLE
H-6-E	105+47	40' LEFT	EXISTING HEAVY DUTY HANDHOLE
P-6-E	105+51	38' LEFT	EXISTING 16' SIGNAL POST
M-5-E	105+34	51' LEFT	EXISTING 36' COMBINATION MAST ARM
H-7-E	104+34	5' LEFT	EXISTING HEAVY DUTY HANDHOLE
H-8-E	104+35	41' LEFT	EXISTING HANDHOLE
M-7-E	104+43	42' LEFT	EXISTING 34' COMBINATION MAST ARM
H-9-E	108+00	34' LEFT	EXISTING HEAVY DUTY HANDHOLE
H-10-E	109+29	33' LEFT	EXISTING HANDHOLE

Exhibit 12

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty Division of Transportation

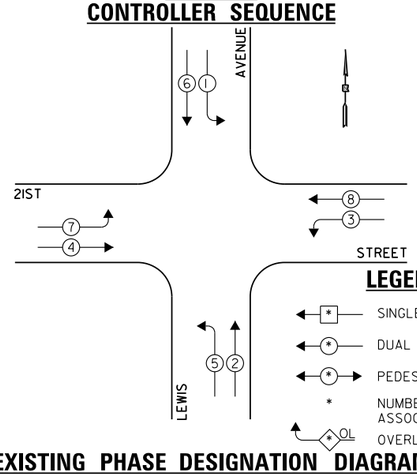
LEWIS AVENUE RESURFACING

SIGNAL PLAN - LEWIS AVE at 21ST STREET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	81	199

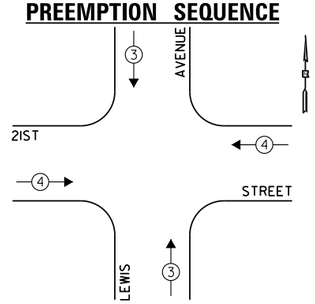
FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn

EXISTING CONTROLLER SEQUENCE

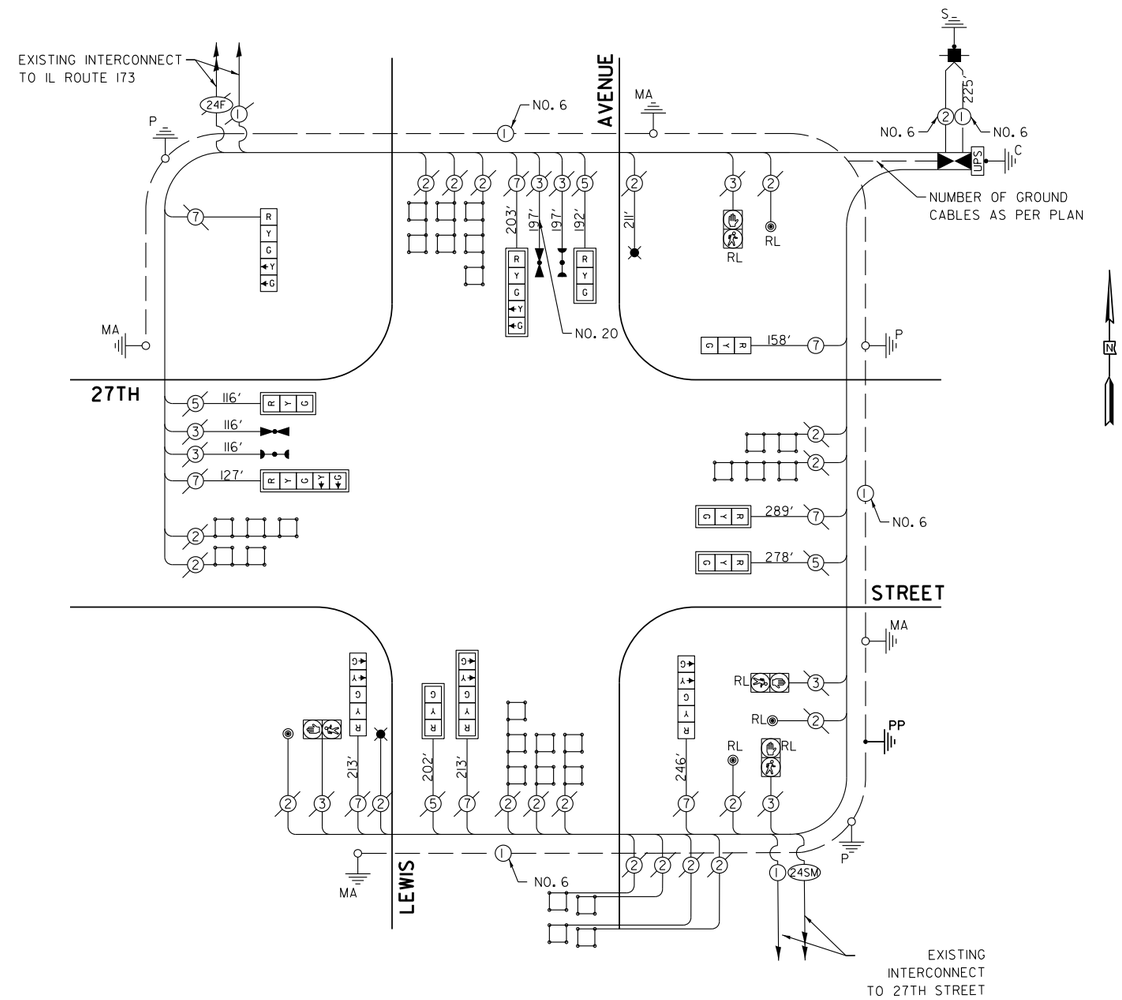


EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓↑	←→



CABLE PLAN

L.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	TOTAL WATTAGE
SIGNAL (RED)		135	10	0.50	0.0
SIGNAL (YELLOW)		135	19	0.10	0.0
SIGNAL (GREEN)		135	11	0.40	0.0
ARROW		135	9	0.10	0.0
PED. SIGNAL	--	90	9	1.00	--
CONTROLLER		--	100	1.00	0.0
LUMINAIRE		--	250	0.50	0.0
L.E.D. ST. NAME SIGN		--	64	0.50	0.0
VIDEO SYSTEM		--	150	1.00	0.0
BATTERY BACKUP		--	25	1.00	0.0
ILLUMINATED SIGN	--	--	25	0.05	--
				TOTAL=	0.0

ENERGY COSTS -	BILLED TO:	CITY OF ZION
	ADDRESS:	3220 27TH STREET
		ZION, IL 60099
ENERGY SUPPLY -	CONTACT:	MS. TERRI BLECK
	PHONE:	(847) 816-5239
	COMPANY:	COM-ED LIBERTYVILLE

SCHEDULE OF QUANTITIES

NO.	QUANTITY	UNIT	
1	11.0	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
2	1.0	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	24.0	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
4	1.0	EACH	PEDESTRIAN PUSH-BUTTON POST, TYPE II
5	8.0	FOOT	CONCRETE FOUNDATION, TYPE A
6	2.0	EACH	DRILL EXISTING HANDHOLE
7	1.0	EACH	RELOCATE EXISTING SIGNAL HEAD
8	3.0	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
9	3.0	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
10	258.0	FOOT	REMOVE AND REINSTALL CABLE FROM CONDUIT
11	1.0	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12	1.0	EACH	REMOVE EXISTING FOUNDATION
13	1.0	EACH	TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST TO THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. THIS WORK SHALL BE ACCOMPLISHED ACCORDING TO SECTIONS 252 AND 250 OF THE "STANDARD SPECIFICATIONS".

Exhibit 12

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

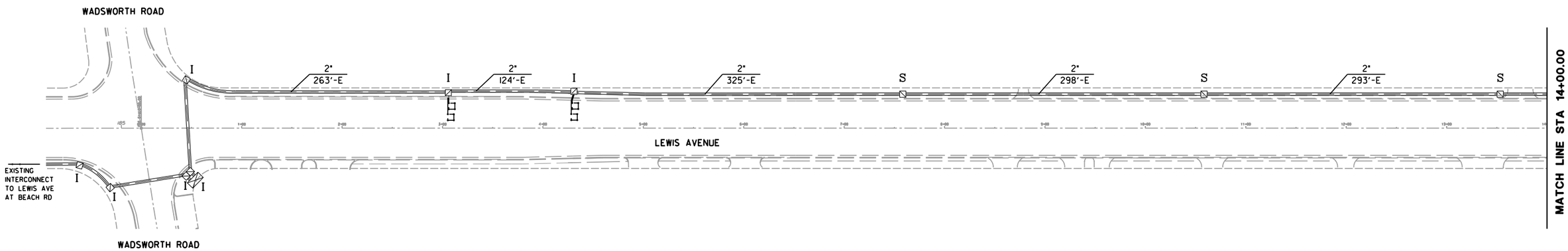
LakeCounty Division of Transportation

LEWIS AVENUE RESURFACING

CABLE PLAN - LEWIS AVE at 21ST STREET

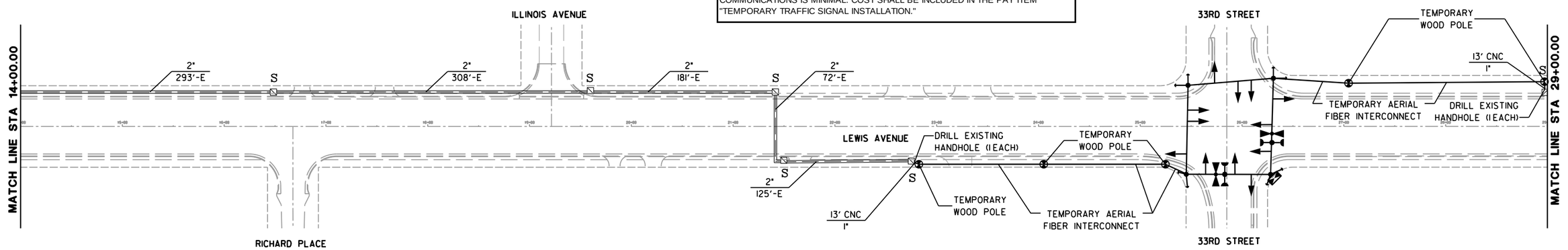
ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	82	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn



NOTES:

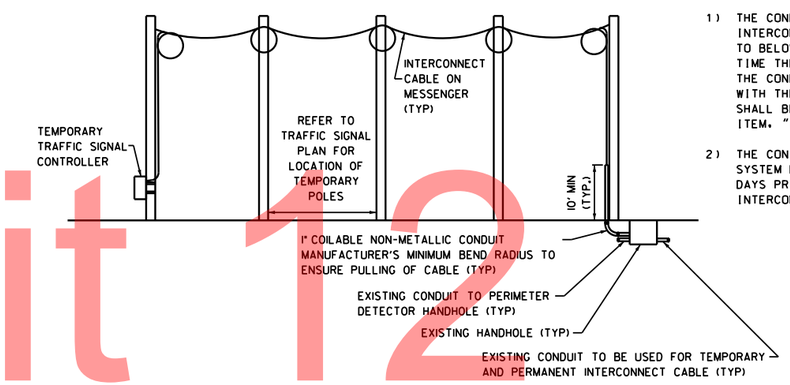
TEMPORARY FIBER AND EXISTING FIBER SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMANLIKE MANNER. THE CONTRACTOR SHALL STAGE WORK SO THE DURATION OF INTERRUPTION TO THE COMMUNICATIONS IS MINIMAL. COST SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION."



NOTES:

PULL EXISTING FIBER OPTIC CABLES AND TRACER CABLES FROM EXISTING INTERSECTION CONDUITS AND HANDHOLES AS INDICATED ON PLANS TO EXISTING SYSTEM HANDHOLES WHERE THEY ARE TO BE COILED AND STORED FOR FUTURE USE. THE EXISTING FIBER OPTIC CABLE SHALL BE SPLICED TO THE TEMPORARY FIBER FOR THE TEMPORARY INTERCONNECT ACCORDING TO PLAN NOTES AND DETAIL. THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT ENTIRE LENGTH OF CABLE IS PROTECTED FROM DAMAGE AND LOSS AFTER REMOVAL.

TEMPORARY FIBER AND EXISTING FIBER SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMANLIKE MANNER. THE CONTRACTOR SHALL STAGE WORK SO THE DURATION OF INTERRUPTION TO THE COMMUNICATIONS IS MINIMAL. COST SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION."



1) THE CONDUIT USED FOR THE TEMPORARY INTERCONNECT CABLE SHALL BE REMOVED TO BELOW GROUND LEVEL AND CAPPED AT THE TIME THE TEMPORARY SIGNAL IS REMOVED. THE CONDUIT, AS WELL AS ALL WORK ASSOCIATED WITH THE INSTALLATION AND REMOVAL OF IT, SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM, "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

2) THE CONTRACTOR MUST NOTIFY THE LCDOT SIGNAL SYSTEM ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO THE START OF ANY WORK ON THE INTERCONNECT SIGNAL SYSTEM.

Exhibit 12

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

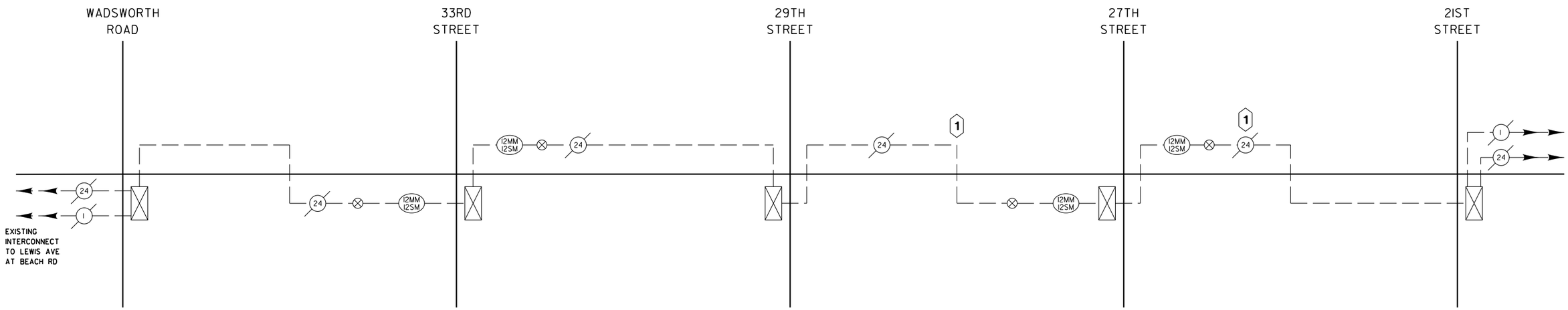
LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING

SIGNAL PLAN - TEMPORARY INTERCONNECT PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	83	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn



1

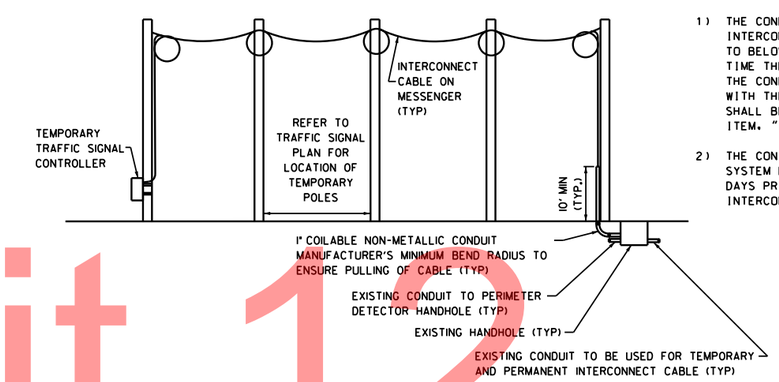
NOTES:

PULL EXISTING FIBER OPTIC CABLES AND TRACER CABLES FROM EXISTING INTERSECTION CONDUITS AND HANDHOLES AS INDICATED ON PLANS TO EXISTING SYSTEM HANDHOLES WHERE THEY ARE TO BE COILED AND STORED FOR FUTURE USE. THE EXISTING FIBER OPTIC CABLE SHALL BE SPLICED TO THE TEMPORARY FIBER FOR THE TEMPORARY INTERCONNECT ACCORDING TO PLAN NOTES AND DETAIL. THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT ENTIRE LENGTH OF CABLE IS PROTECTED FROM DAMAGE AND LOSS AFTER REMOVAL.

TEMPORARY FIBER AND EXISTING FIBER SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMANLIKE MANNER. THE CONTRACTOR SHALL STAGE WORK SO THE DURATION OF INTERRUPTION TO THE COMMUNICATIONS IS MINIMAL. COST SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION."

INTERSECTION/LOCATION	INCLUDED		BID ITEM	
	T	S	T	S
LEWIS AVENUE AT WADSWORTH ROAD				
LEWIS AVENUE AT 33RD STREET	12	6		
LEWIS AVENUE AT 29TH STREET				
LEWIS AVENUE AT 27TH STREET	12	6		
LEWIS AVENUE AT 21ST STREET				

TABLE REFLECTS SPLICES IN CABINETS ONLY. ALL TERMINATIONS AND SPLICES REQUIRED FOR TEMPORARY INTERCONNECT ARE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".



1) THE CONDUIT USED FOR THE TEMPORARY INTERCONNECT CABLE SHALL BE REMOVED TO BELOW GROUND LEVEL AND CAPPED AT THE TIME THE TEMPORARY SIGNAL IS REMOVED. THE CONDUIT, AS WELL AS ALL WORK ASSOCIATED WITH THE INSTALLATION AND REMOVAL OF IT, SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM, "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

2) THE CONTRACTOR MUST NOTIFY THE LCDOT SIGNAL SYSTEM ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO THE START OF ANY WORK ON THE INTERCONNECT SIGNAL SYSTEM.

Exhibit 12

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

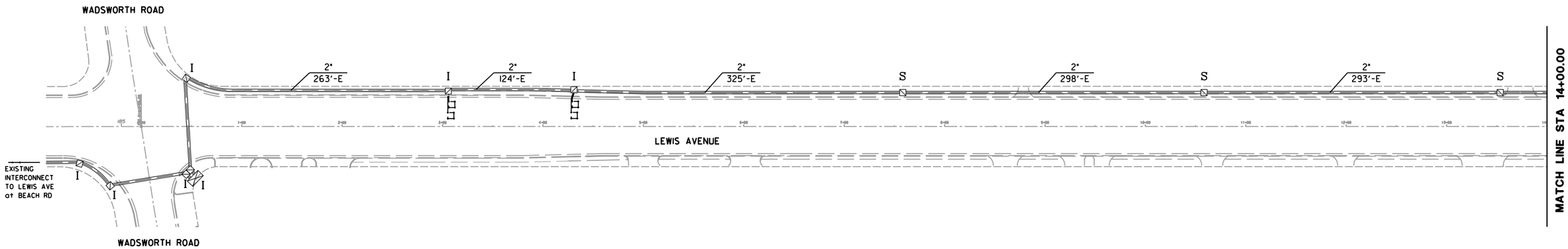
LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING

TEMPORARY INTERCONNECT SCHEMATIC

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	86	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn



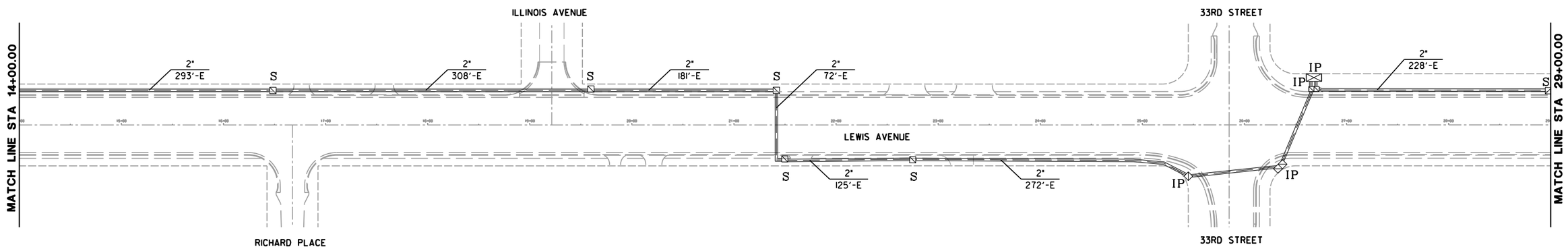


Exhibit 12

NOTES:
1. REINSTALL EXISTING FIBER OPTIC CABLES AND TRACER CABLES IN NEW INTERSECTION CONDUITS, HANDHOLES, AND CONTROLLER CABINET.
2. UTILIZE ADDITIONAL CABLE SLACK STORED IN SYSTEM HANDHOLES.

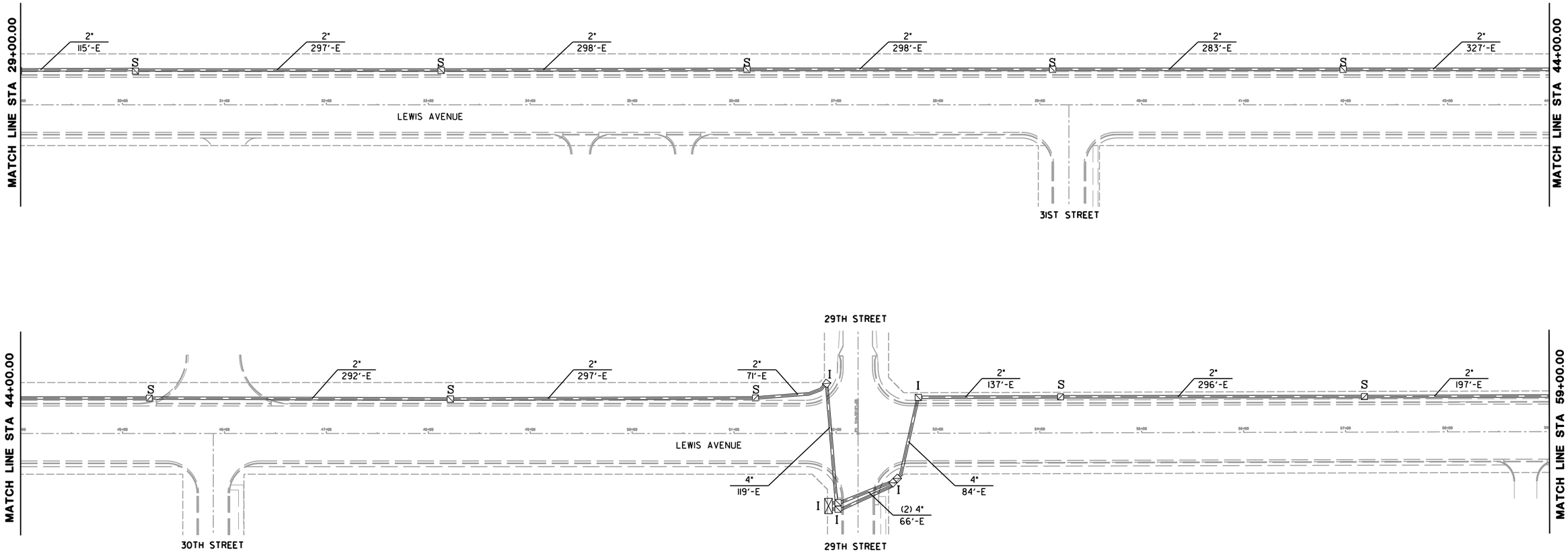
REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

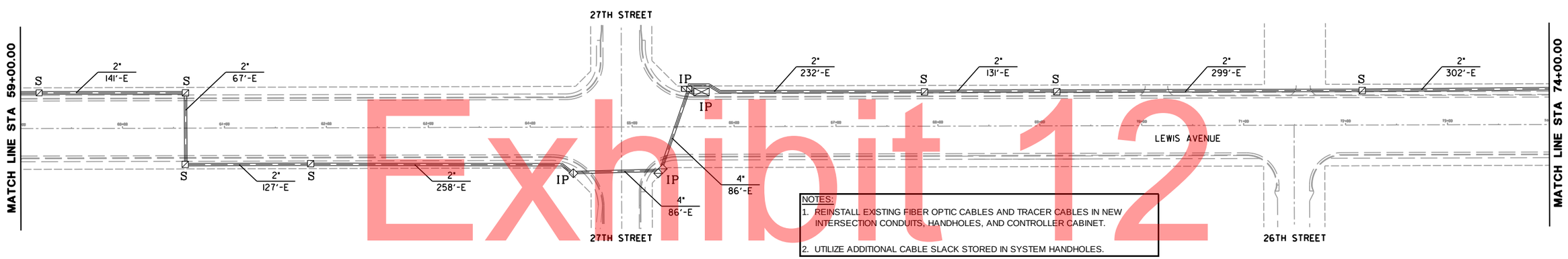
LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
SIGNAL PLAN - INTERCONNECT PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	87	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn





NOTES:
1. REINSTALL EXISTING FIBER OPTIC CABLES AND TRACER CABLES IN NEW INTERSECTION CONDUITS, HANDHOLES, AND CONTROLLER CABINET.
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Exhibit 12

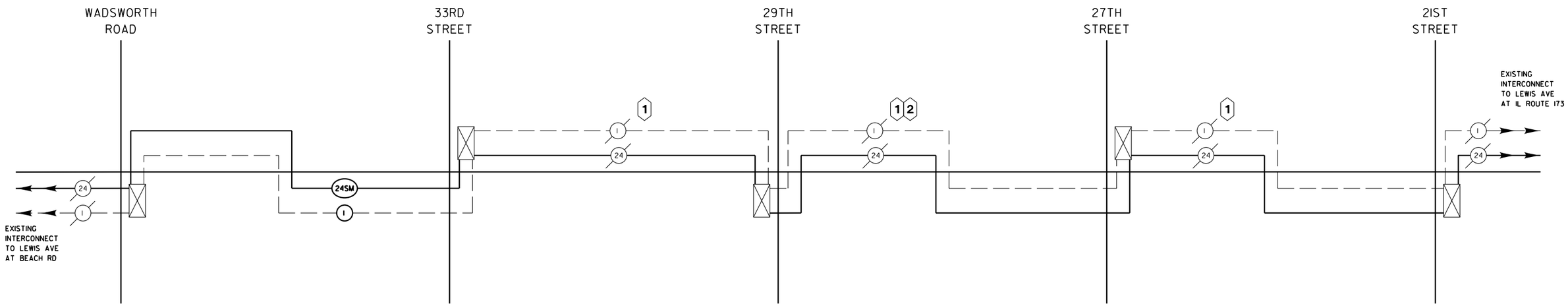
REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
SIGNAL PLAN - INTERCONNECT PLAN

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	88	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn



INTERSECTION/LOCATION	INCLUDED		BID ITEM	
	T	S	T	S
LEWIS AVENUE AT WADSWORTH ROAD	6	6		
LEWIS AVENUE AT 33RD STREET	6	6	6	
LEWIS AVENUE AT 29TH STREET				
LEWIS AVENUE AT 27TH STREET			12	6
LEWIS AVENUE AT 21ST STREET				

NOTES:

1. REINSTALL EXISTING FIBER OPTIC CABLES AND TRACER CABLES IN NEW INTERSECTION CONDUITS, HANDHOLES, AND CONTROLLER CABINET.
2. UTILIZE ADDITIONAL CABLE SLACK STORED IN SYSTEM HANDHOLES.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2.0
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3012.0
DRILL EXISTING HANDHOLE	EACH	4.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	790.0
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	2794.0
FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	3028.0
TERMINATE FIBER IN CABINET	EACH	18.0
SPLICE FIBER IN CABINET	EACH	6.0
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2.0

Exhibit 12

REVISIONS / REMARKS

NO.	DESCRIPTION	DATE	BY		
		/ /		SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

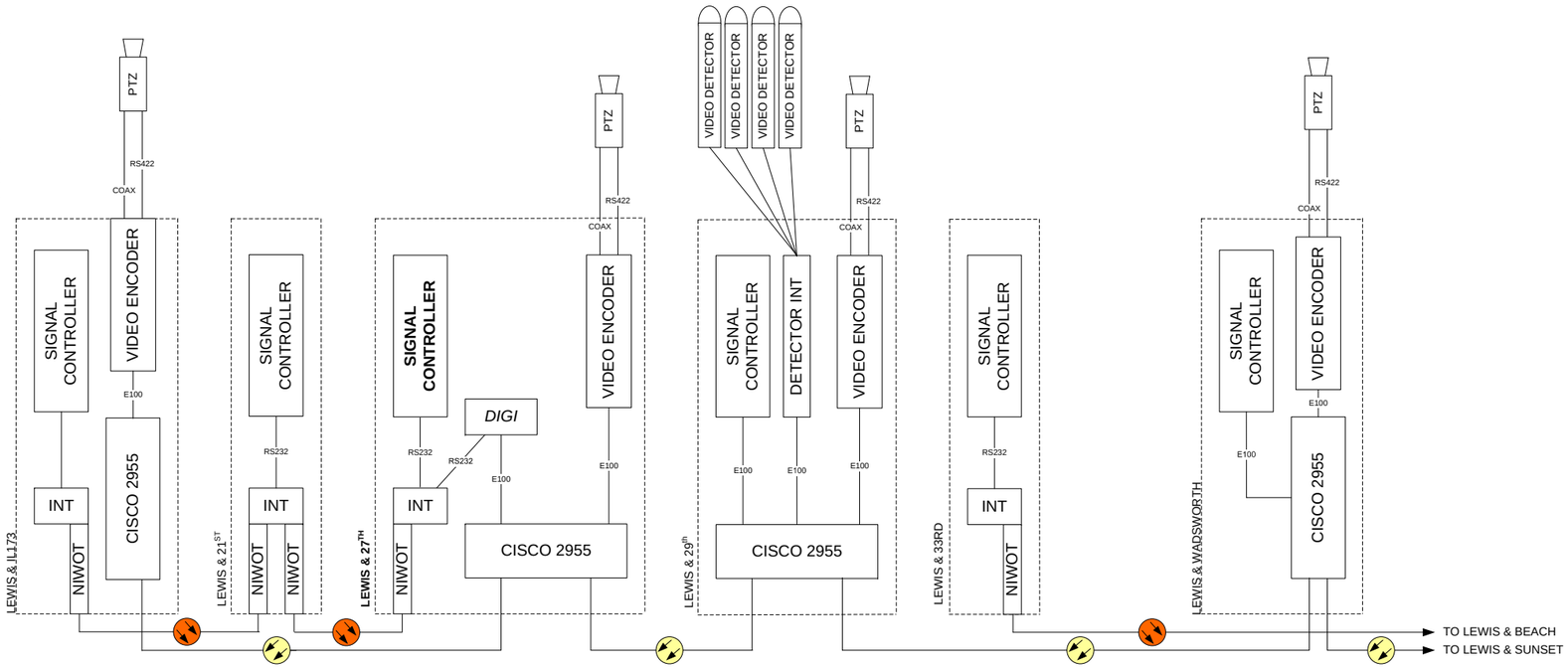
LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING

INTERCONNECT SCHEMATIC

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	90	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\SignalPlan Sheets.dgn



Network Diagram sheets provided by LCDOT Traffic and inserted into the plan set.

Coordinate with LCDOT Traffic to provide page numbers and obtain the necessary sheets.

TEMP

EXISTING MULTIMODE FIBER

PROPOSED MULTIMODE FIBER

EXISTING SINGLEMODE FIBER

PROPOSED SINGLEMODE FIBER

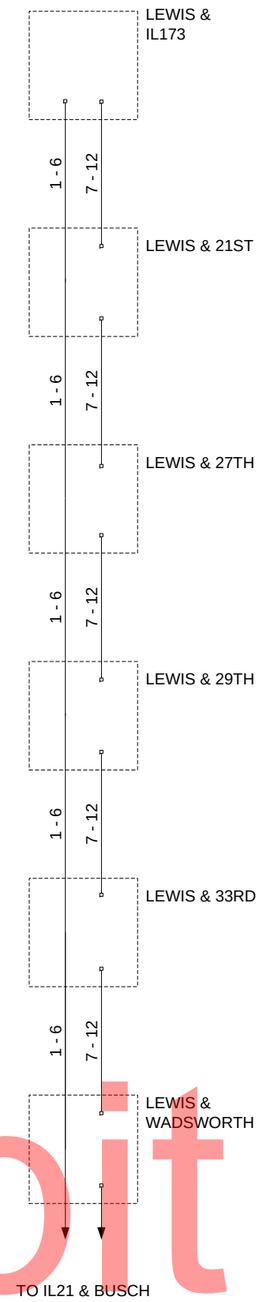
XYZ EXISTING EQUIPMENT

XYZ PROPOSED EQUIPMENT

Exhibit 12

DESIGNED - DG	REVISED - 2016.09.21		LAKE COUNTY DIVISION OF TRANSPORTATION	108A LEWIS / SUNSET TEMP	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
DRAWN - YM	REVISED -				CH27	89	16-00089-08-RS	91	199
CHECKED - DG	REVISED -								
DATE 2016.11.02	REVISED -			SCALE N/A					

TEMP



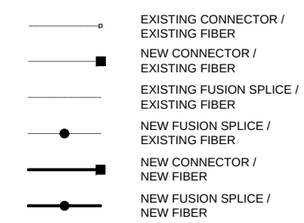
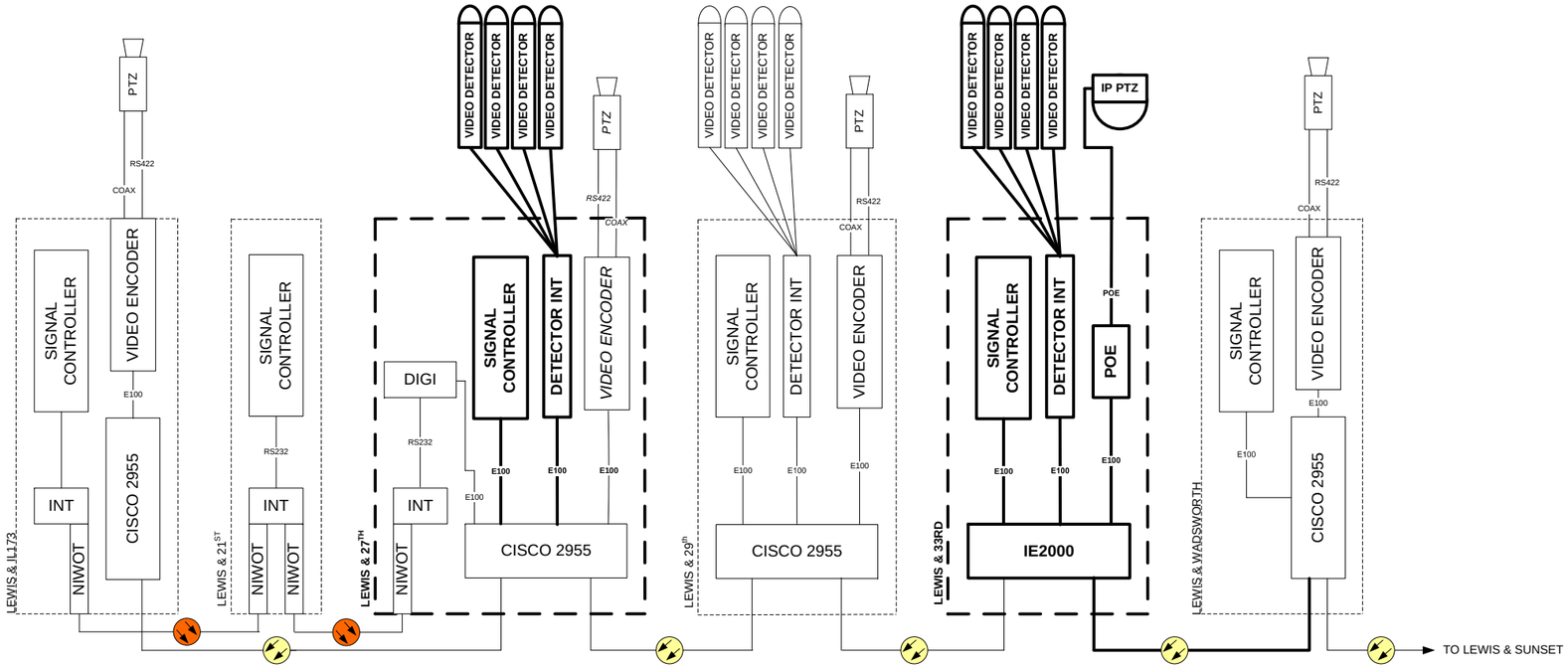


Exhibit 12

DESIGNED - DG	REVISED -		LAKE COUNTY DIVISION OF TRANSPORTATION	LEWIS FROM 21ST TO 33RD TEMP FIBER SPLICING DIAGRAM	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
DRAWN - YM	REVISED -				CH27	89	16-00089-08-RS	92	199
CHECKED - DG	REVISED -			SCALE N/A					
DATE 2016.11.02	REVISED -								



EXISTING MULTIMODE FIBER

PROPOSED MULTIMODE FIBER

EXISTING SINGLEMODE FIBER

PROPOSED SINGLEMODE FIBER

XYZ — EXISTING EQUIPMENT

XYZ — PROPOSED EQUIPMENT

Exhibit 12

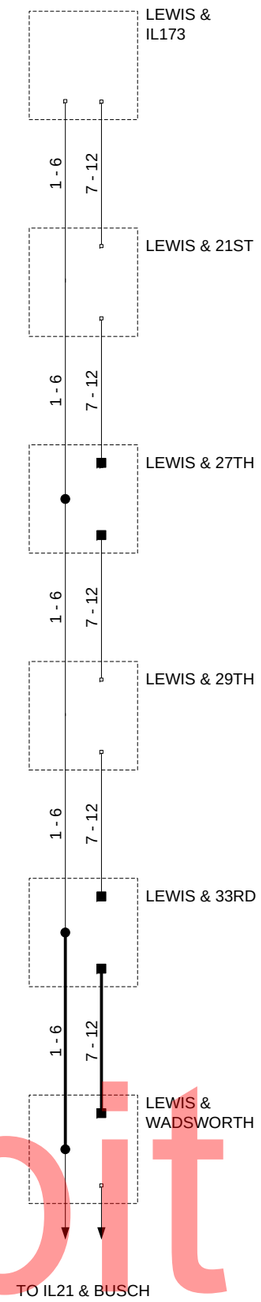
DESIGNED - DG	REVISED -		
DRAWN - YM	REVISED -		
CHECKED - DG	REVISED -		
DATE 2016.11.02	REVISED -		

LAKE COUNTY
DIVISION OF TRANSPORTATION

108A
LEWIS / SUNSET

SCALE N/A

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	89	16-00089-08-RS	93	199



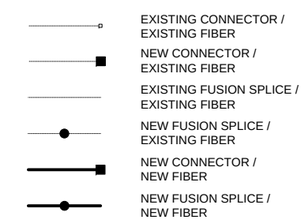


Exhibit 12

DESIGNED - DG	REVISED -		LAKE COUNTY DIVISION OF TRANSPORTATION	LEWIS FROM 21ST TO 33RD FIBER SPLICING DIAGRAM	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
DRAWN - YM	REVISED -				CH27	89	16-00089-08-RS	94	199
CHECKED - DG	REVISED -								
DATE 2016.11.02	REVISED -			SCALE N/A					

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RR	RR
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I	I	
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G ◄Y ◄G P	R Y G ◄Y ◄G P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G ◄Y ◄G P RB	R Y G ◄Y ◄G P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

IDOT D1 Standard Traffic Signal Design Details available on the LCDOT website under LCDOT Standards.

Exhibit 12

FILE NAME = ts05.dgn	USER NAME = leysa	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - LP	REVISED -
Default	PLOT DATE = 9/29/2016	DATE - 9/29/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00089-08-RS	LAKE	95	199
	TS-05	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

ts05.dgn 9/29/2016 2:58:13 PM User=leysa

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

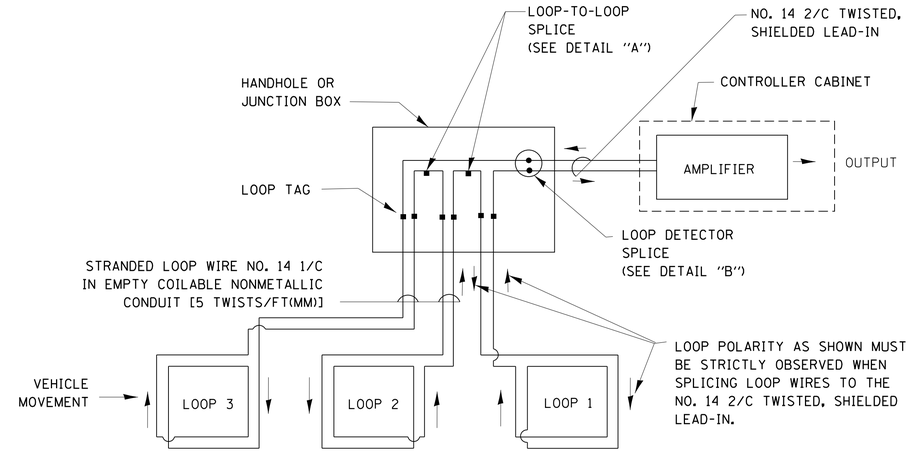
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

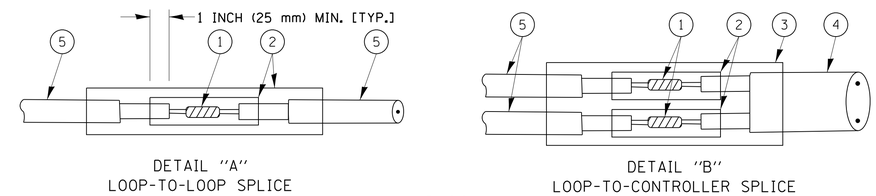
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



DETECTOR LOOP WIRING SCHEMATIC

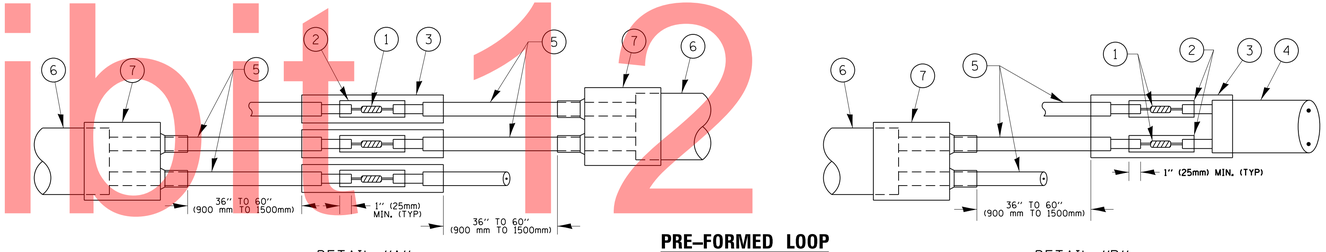
- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

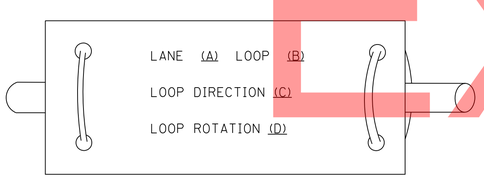


DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP LEAD-IN CABLE TAG



A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

LOOP DETECTOR SPLICE

1. WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
2. WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
3. WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
4. NO. 14 2/C TWISTED, SHIELDED CABLE.
5. LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
6. PRE-FORMED LOOP
7. XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

Exhibit 12

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		DRAWN - BCK	REVISED -						16-00089-08-RS	LAKE	96 / 199
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

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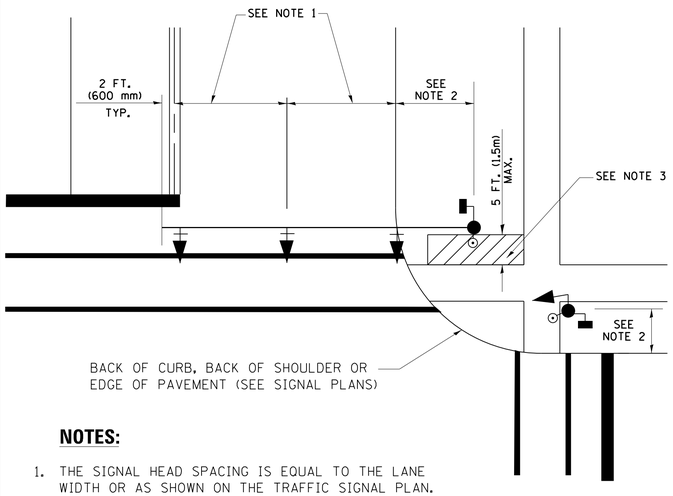
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

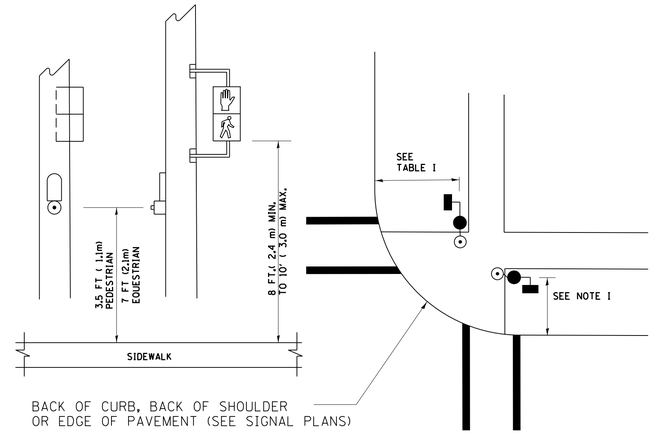
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

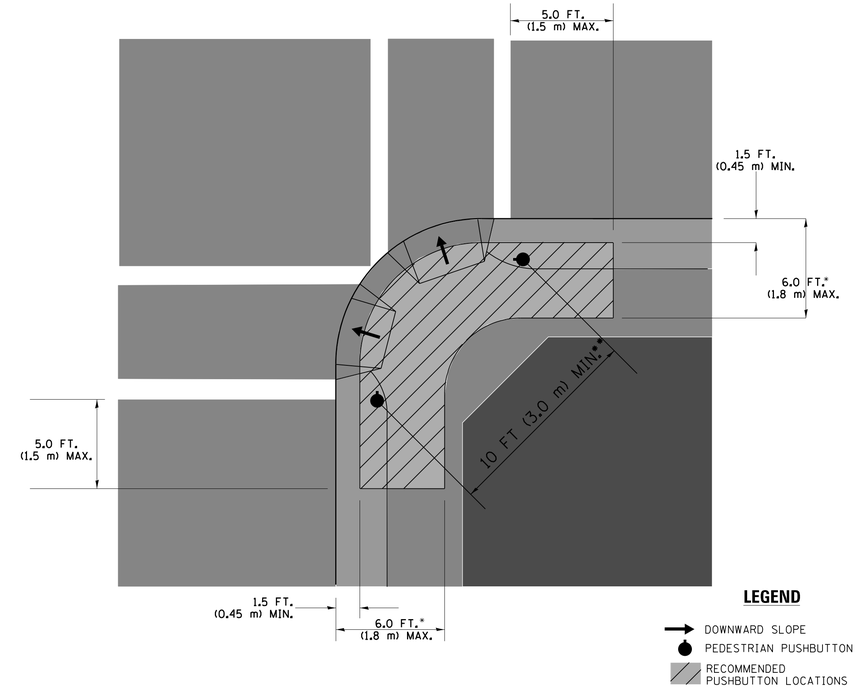
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

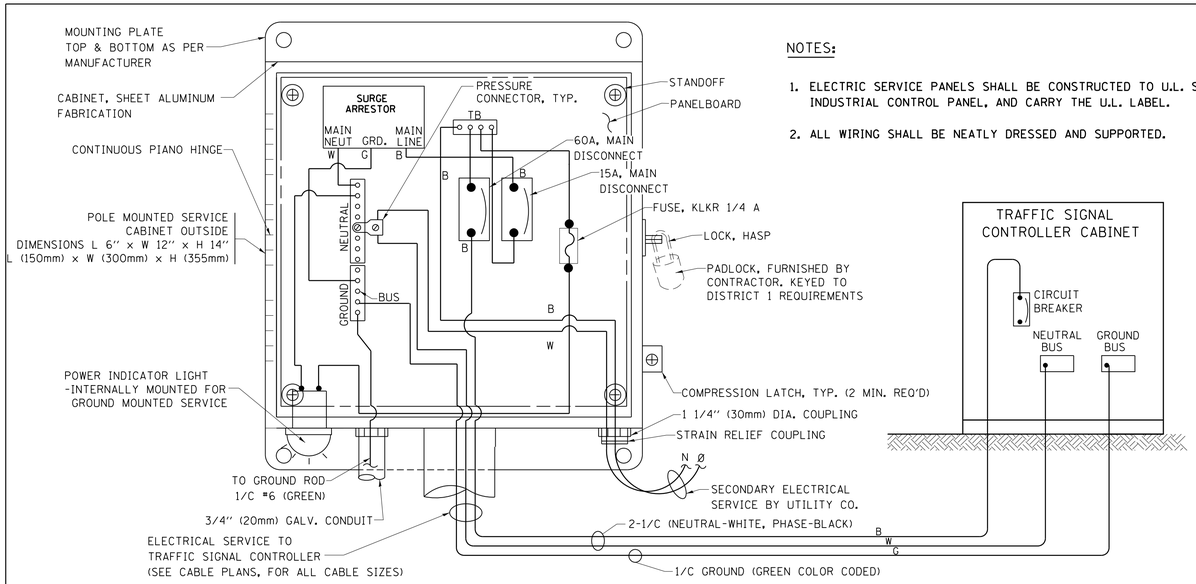
TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

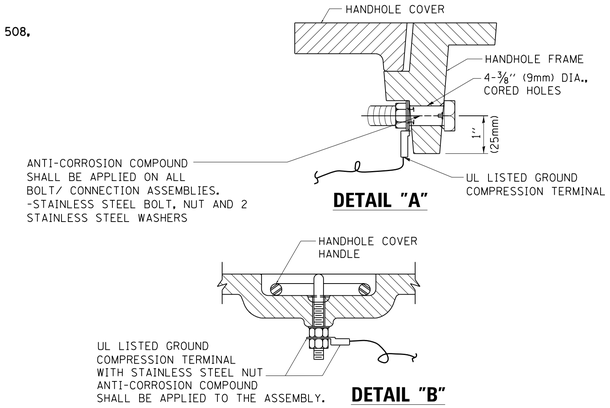
Exhibit 12



NOTES:

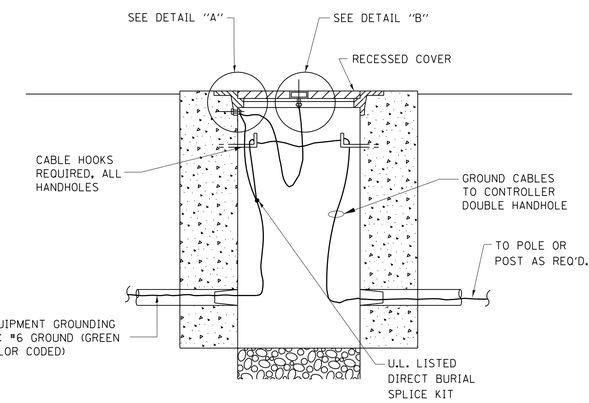
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)

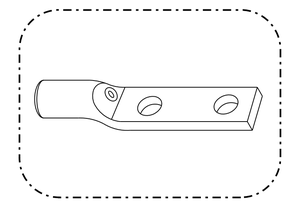


NOTES:
GROUNDING SYSTEM

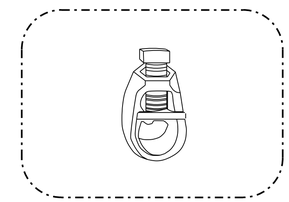
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



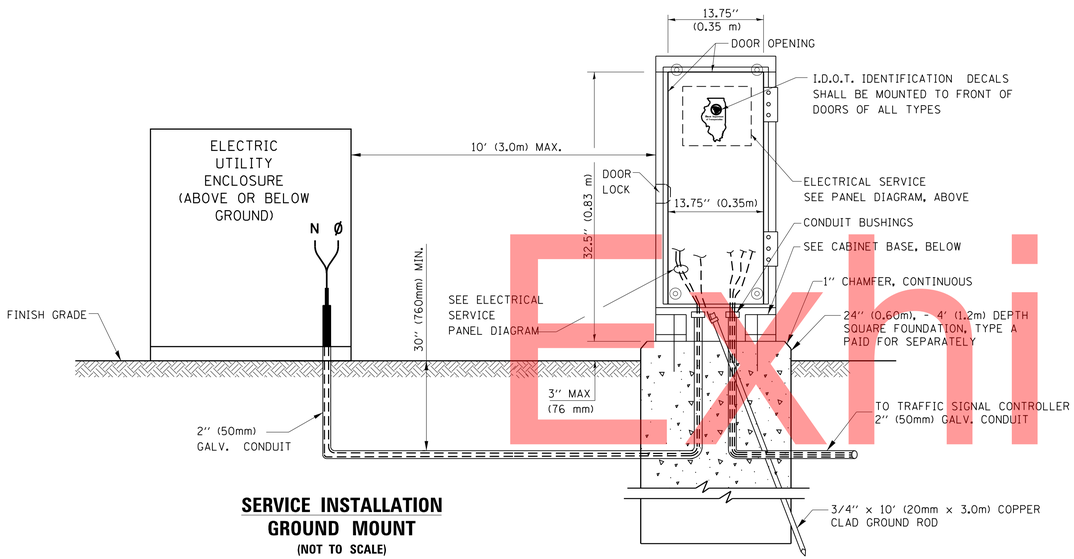
HEAVY-DUTY COMPRESSION TERMINAL
(BURNDY TYPE YGHA OR APPROVED EQUAL)



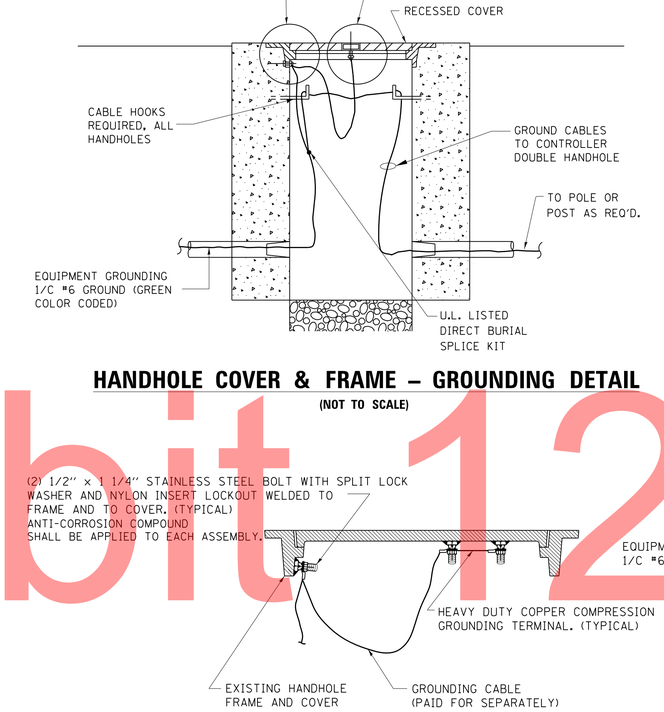
3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP
(BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

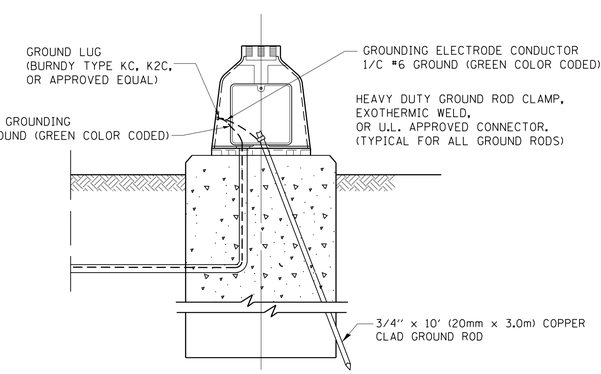
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



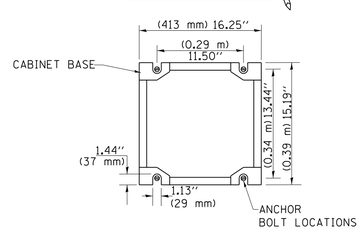
SERVICE INSTALLATION
GROUND MOUNT
(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL
(NOT TO SCALE)



CABINET – BASE BOLT PATTERN
(NOT TO SCALE)

Exhibit 12

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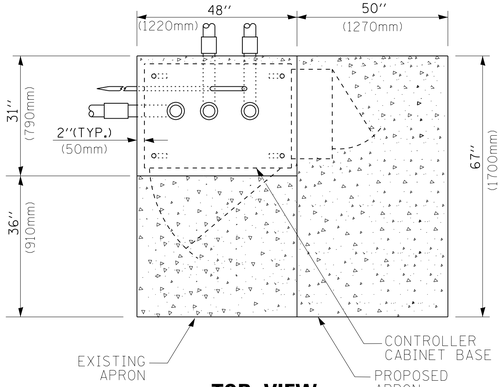
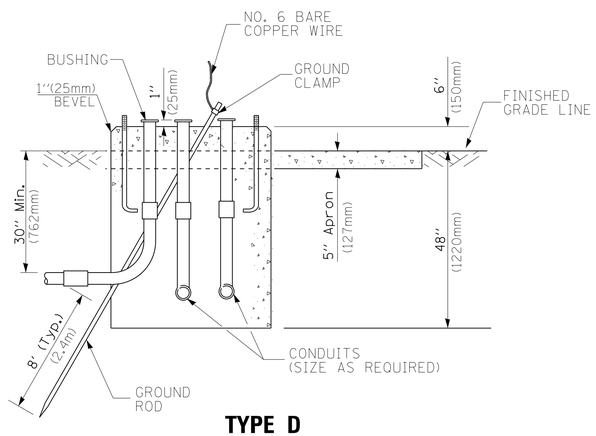
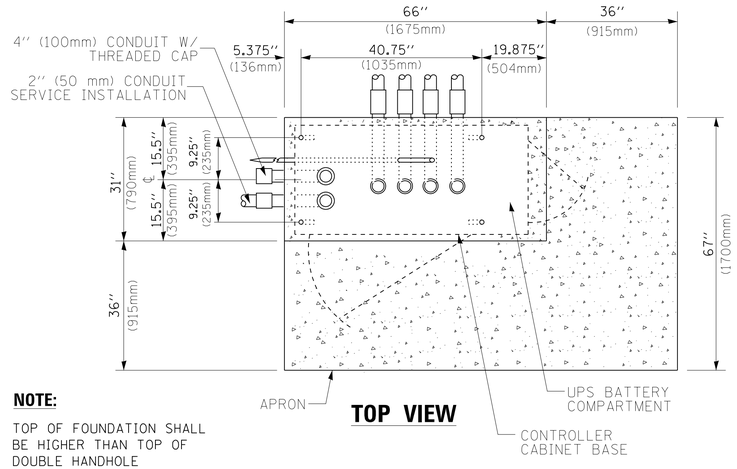
		DRAWN - BCK	REVISED -				16-00089-08-RS	LAKE	98	199
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -				TS-05	CONTRACT NO.		
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TOP VIEW



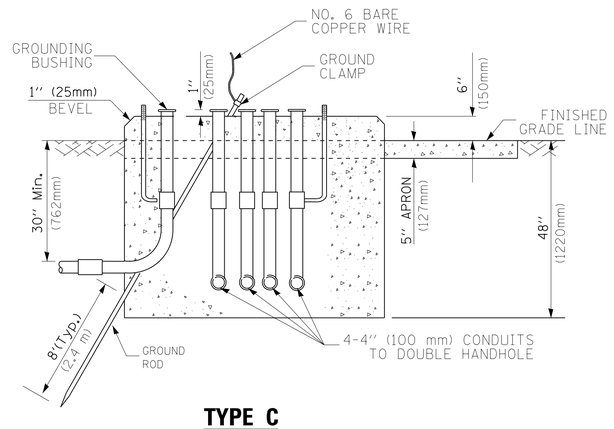
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



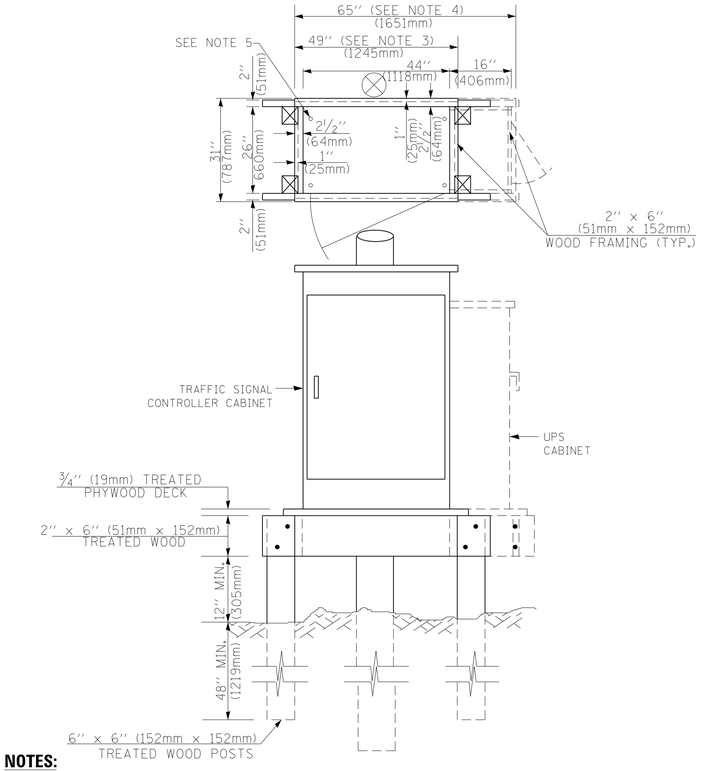
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

Exhibit 12

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

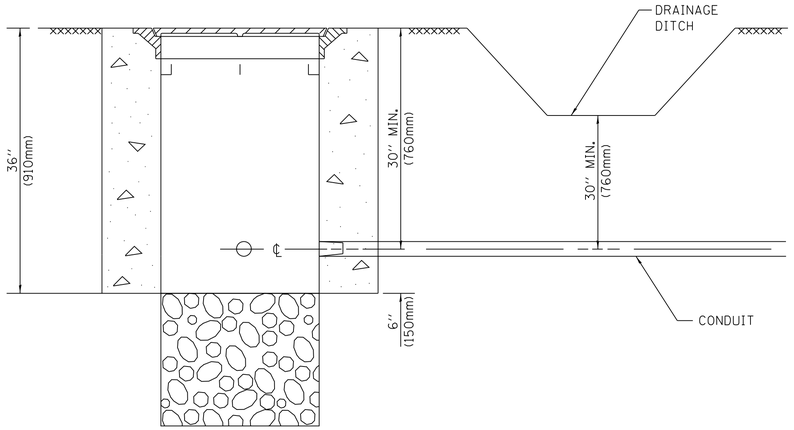
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00089-08-RS	LAKE	99	199
	TS-05	CONTRACT NO.		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

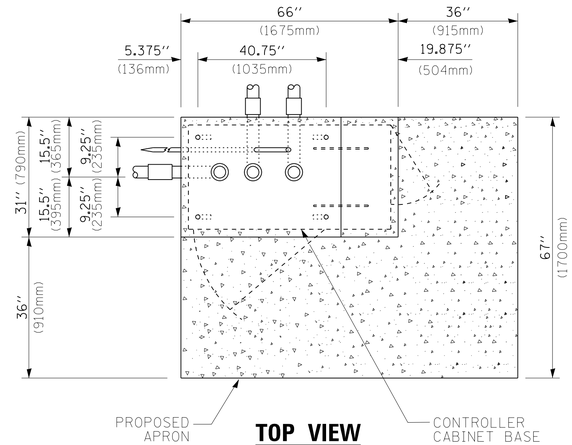


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

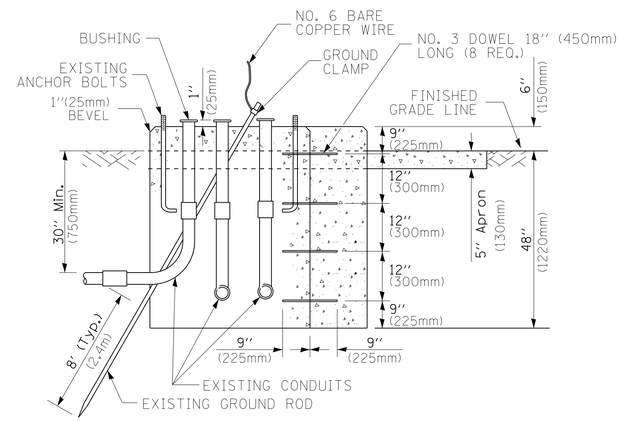
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



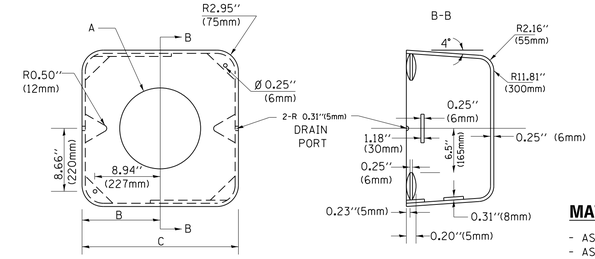
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

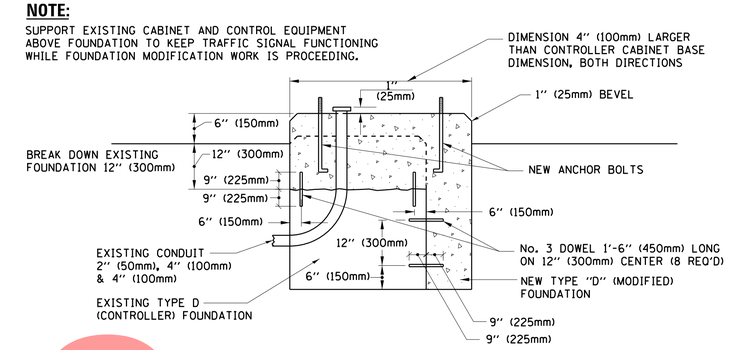
SHROUD

NOTES:

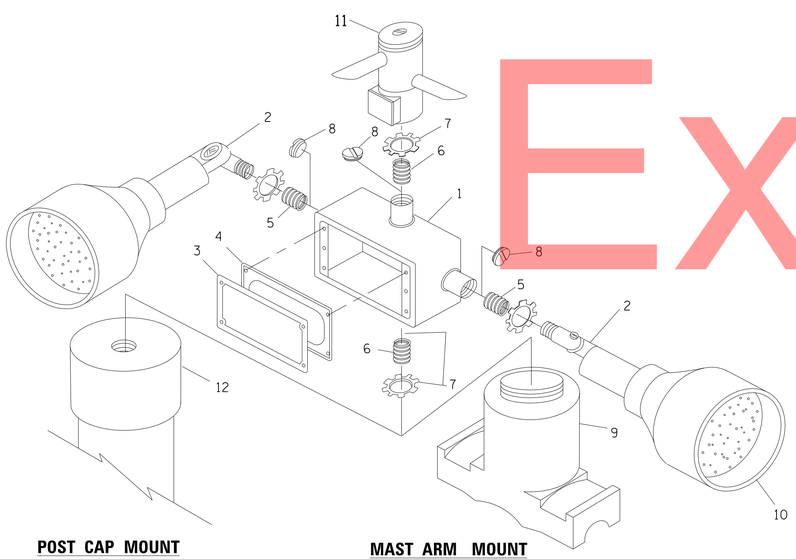
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

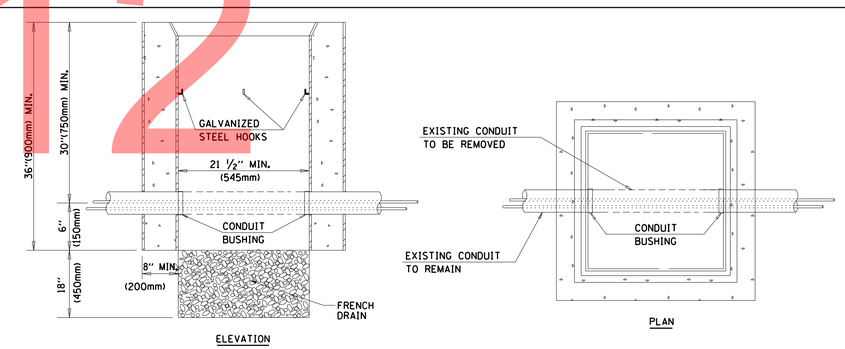
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

Exhibit 12

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

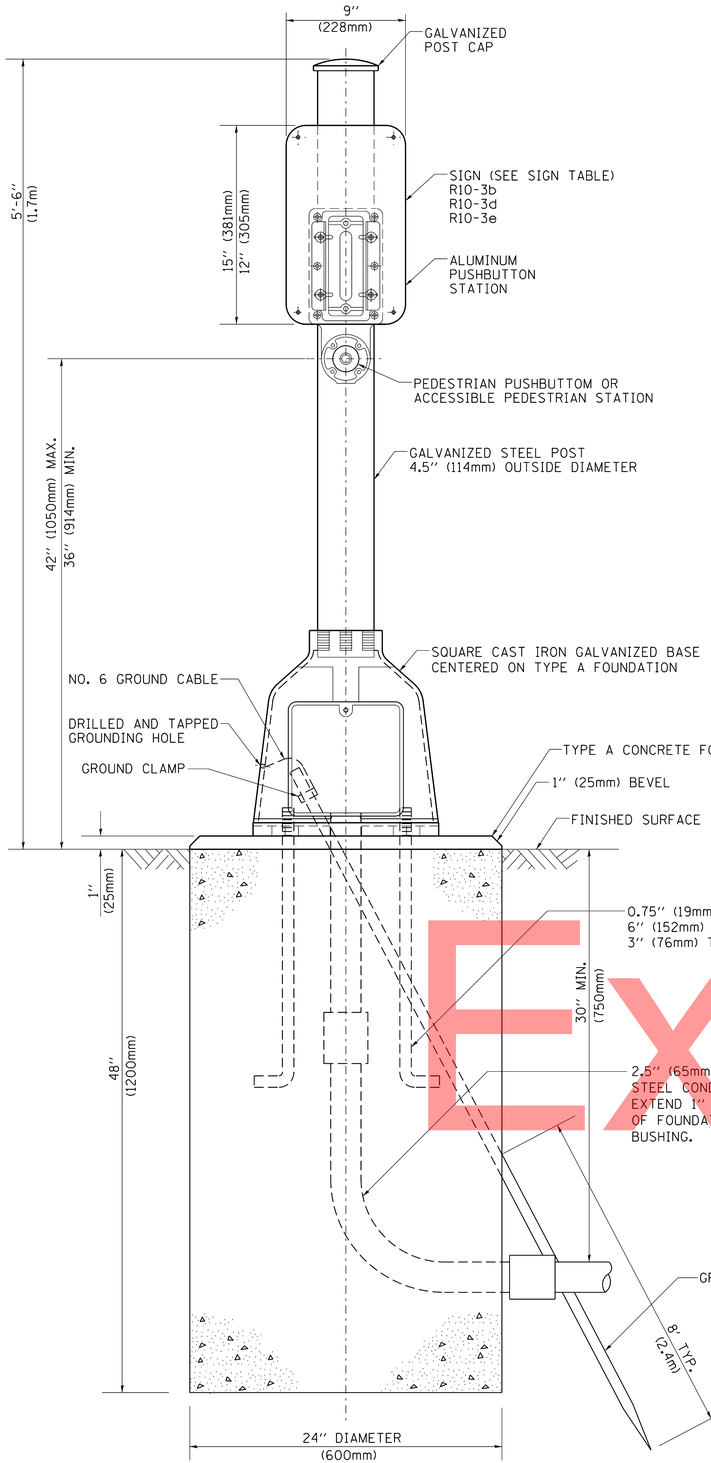
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

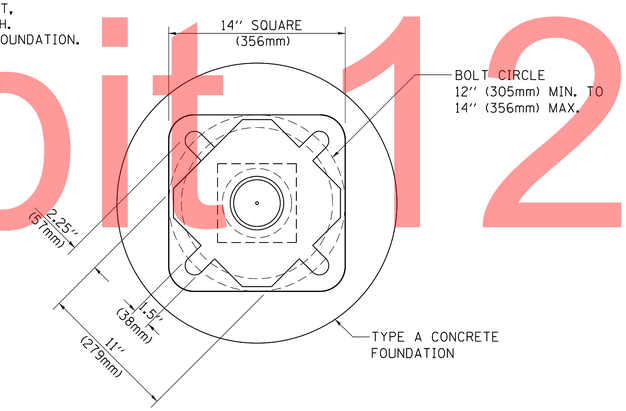
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00089-08-RS	LAKE	100	199
	TS-05	CONTRACT NO.		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

Exhibit 12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

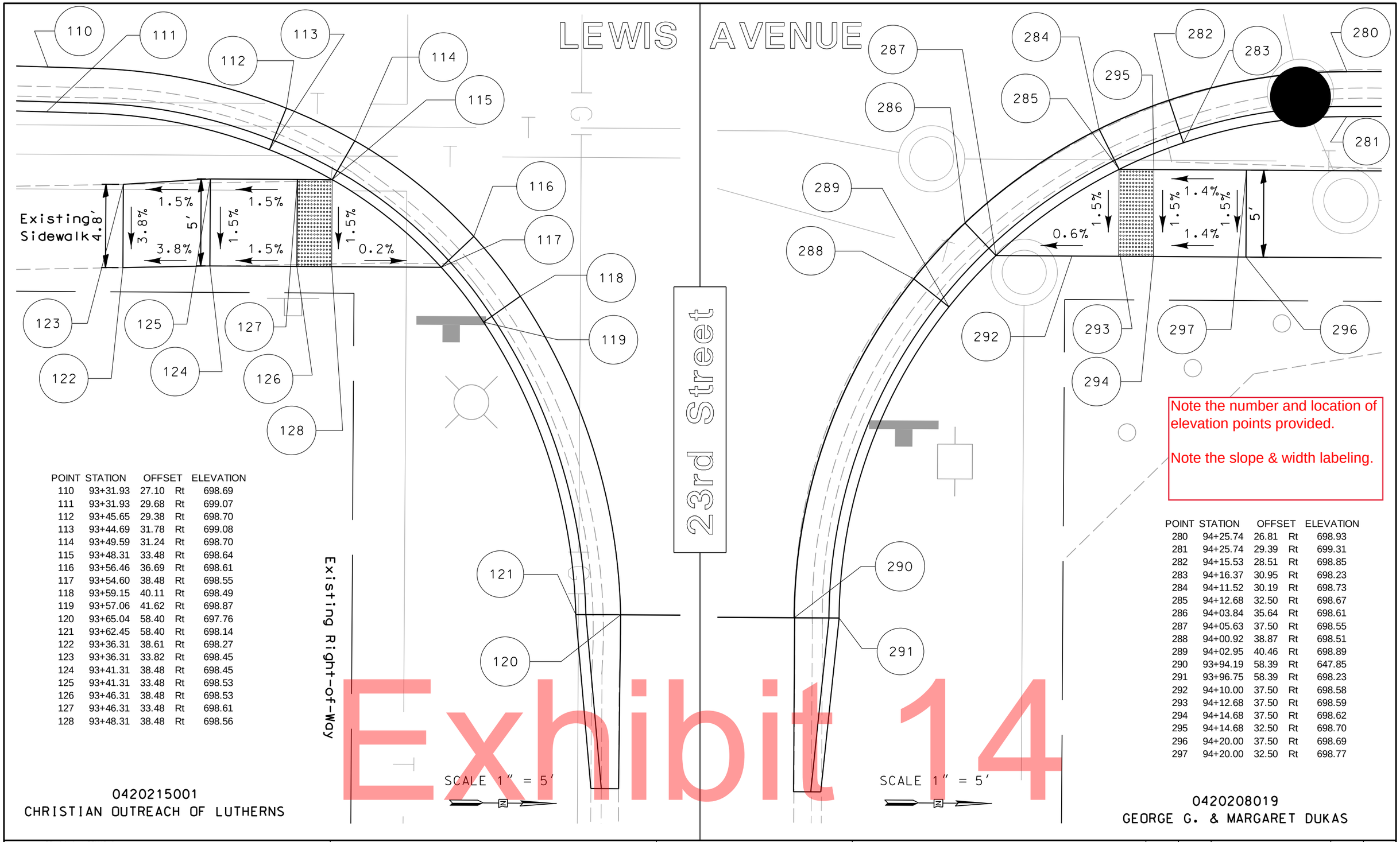
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00089-08-RS	LAKE	101	199
	TS-05	CONTRACT NO.		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

ts05.dgn 1/13/2014 12:39:22 PM User=footemj



Note the number and location of elevation points provided.

Note the slope & width labeling.

POINT	STATION	OFFSET		ELEVATION
110	93+31.93	27.10	Rt	698.69
111	93+31.93	29.68	Rt	699.07
112	93+45.65	29.38	Rt	698.70
113	93+44.69	31.78	Rt	699.08
114	93+49.59	31.24	Rt	698.70
115	93+48.31	33.48	Rt	698.64
116	93+56.46	36.69	Rt	698.61
117	93+54.60	38.48	Rt	698.55
118	93+59.15	40.11	Rt	698.49
119	93+57.06	41.62	Rt	698.87
120	93+65.04	58.40	Rt	697.76
121	93+62.45	58.40	Rt	698.14
122	93+36.31	38.61	Rt	698.27
123	93+36.31	33.82	Rt	698.45
124	93+41.31	38.48	Rt	698.45
125	93+41.31	33.48	Rt	698.53
126	93+46.31	38.48	Rt	698.53
127	93+46.31	33.48	Rt	698.61
128	93+48.31	38.48	Rt	698.56

POINT	STATION	OFFSET		ELEVATION
280	94+25.74	26.81	Rt	698.93
281	94+25.74	29.39	Rt	699.31
282	94+15.53	28.51	Rt	698.85
283	94+16.37	30.95	Rt	698.23
284	94+11.52	30.19	Rt	698.73
285	94+12.68	32.50	Rt	698.67
286	94+03.84	35.64	Rt	698.61
287	94+05.63	37.50	Rt	698.55
288	94+00.92	38.87	Rt	698.51
289	94+02.95	40.46	Rt	698.89
290	93+94.19	58.39	Rt	647.85
291	93+96.75	58.39	Rt	698.23
292	94+10.00	37.50	Rt	698.58
293	94+12.68	37.50	Rt	698.59
294	94+14.68	37.50	Rt	698.62
295	94+14.68	32.50	Rt	698.70
296	94+20.00	37.50	Rt	698.69
297	94+20.00	32.50	Rt	698.77

0420215001
CHRISTIAN OUTREACH OF LUTHERNS

0420208019
GEORGE G. & MARGARET DUKAS

Exhibit 14

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE RESURFACING
SIDEWALK DETAIL SHEET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	68	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\DetailPlan Sheets.dgn

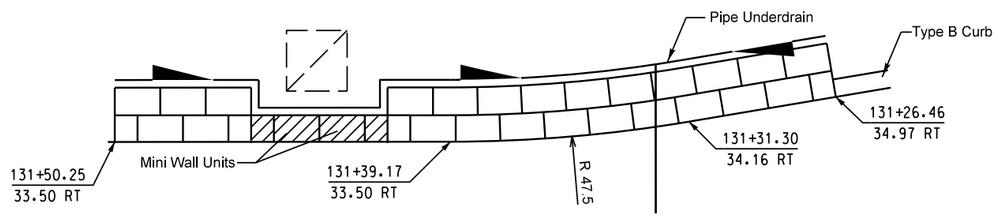
Example of small retaining wall - No structural plans required.

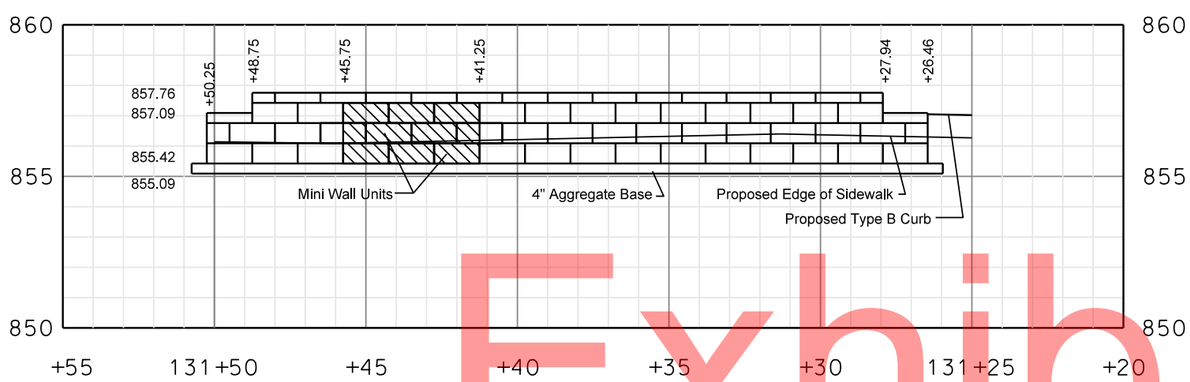
** NOTES

The Length is measured along the face of the Wall - won't match the station difference because of the centerline curve and the wall curve at the south end.

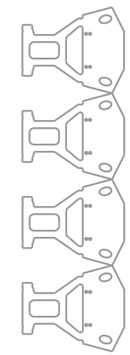
The VIEW of the retaining wall is shown from the perspective of looking at the face of wall from the back of curb, towards the Right-of-Way. (Stations increase from south to north on plans.)

3/4" Expansion Joints shall be constructed between the retaining wall and the sidewalk. The cost of the expansion joints shall be included in the unit price for PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH.



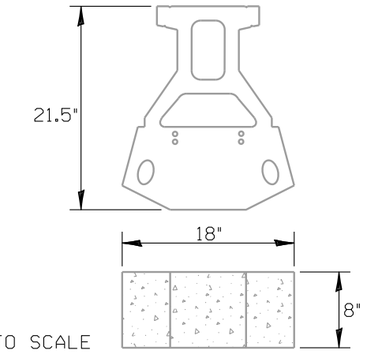


TOP VIEW



NOT TO SCALE

BLOCK DETAILS



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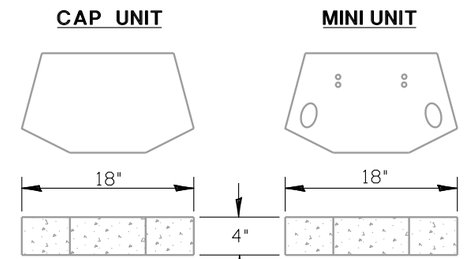
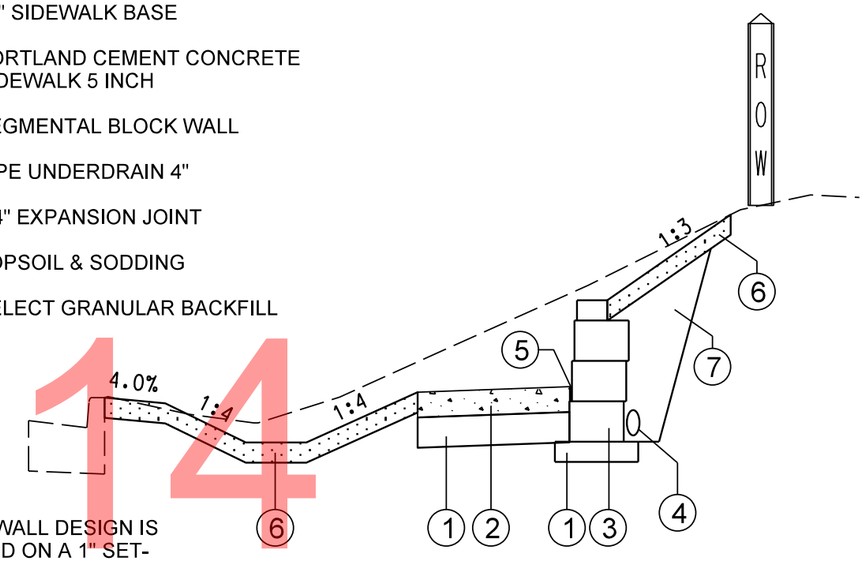


1. AGGREGATE BASE COURSE
   4" LEVELING PAD
   6" SIDEWALK BASE
2. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
3. SEGMENTAL BLOCK WALL
4. PIPE UNDERDRAIN 4"
5. 3/4" EXPANSION JOINT
6. TOPSOIL & SODDING
7. SELECT GRANULAR BACKFILL



THE WALL DESIGN IS BASED ON A 1" SET-BACK FOR EACH LAYER.

Exhibit 14

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 2/18/2016

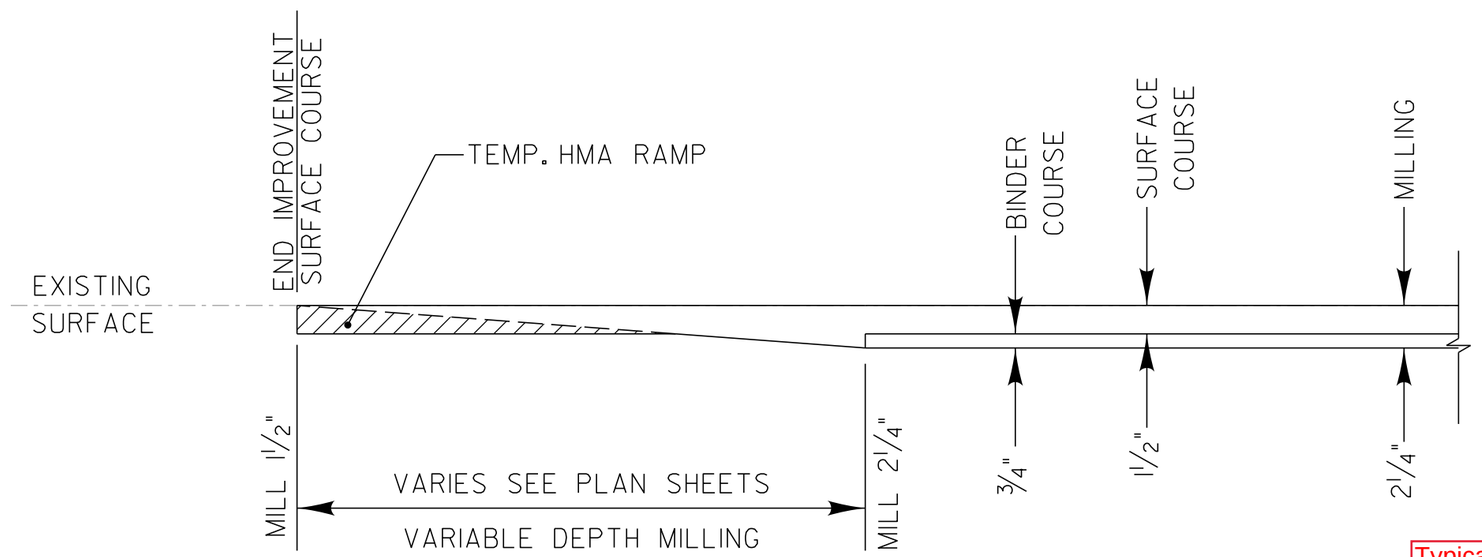
0 2.5 5.0

LakeCounty
Division of Transportation

ELA ROAD RESURFACING
RETAINING WALL DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	43	150

FILE NAME: U:\Design\Sullivan\Ela Rd Sidewalk\ElaRd Cross Sections.dgn



Typical butt joint at 1:240
(Rise:Run)

BUTT JOINT DETAIL - 2 1/4" OVERLAY

Exhibit 14

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	KON
		/ /		PLOTTED BY:	hd17512 2/18/2016

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SCALES
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2 4

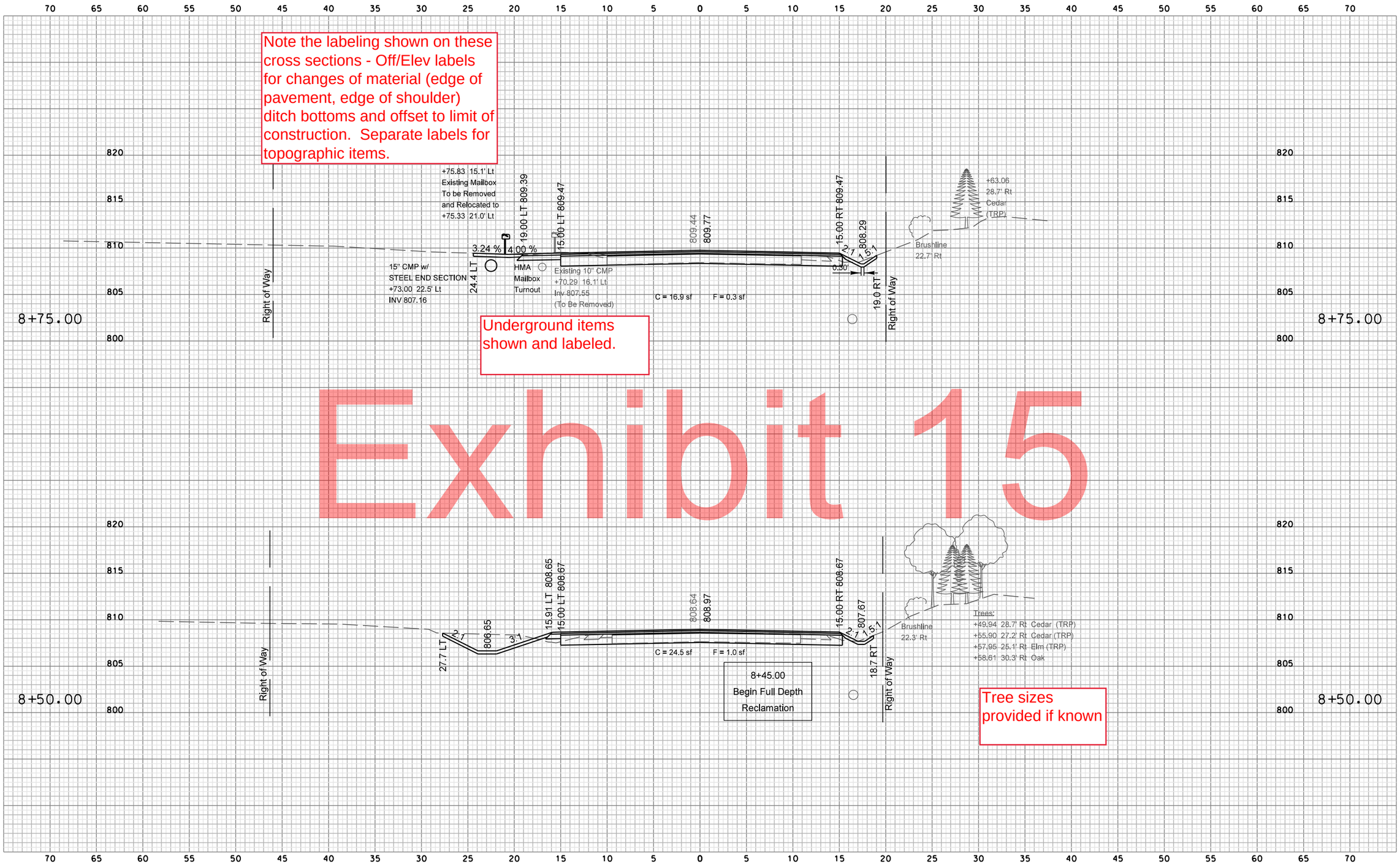
ELA ROAD RESURFACING

LakeCounty
Division of Transportation

BUTT JOINT DETAILS
ELA ROAD

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH60	144	15-00144-21-RS	48	150

FILE NAME: U:\Design\Nauman\15-00144-21-RS Ela Rd Resurfacing\Plans\15-00144-21-RS.dgn



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

LakeCounty
Division of Transportation

Fairfield Road - FDR

CROSS SECTION STA. 8+50.00 **TO STA.** 8+75.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	46	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\XS 180 FDR.dgn

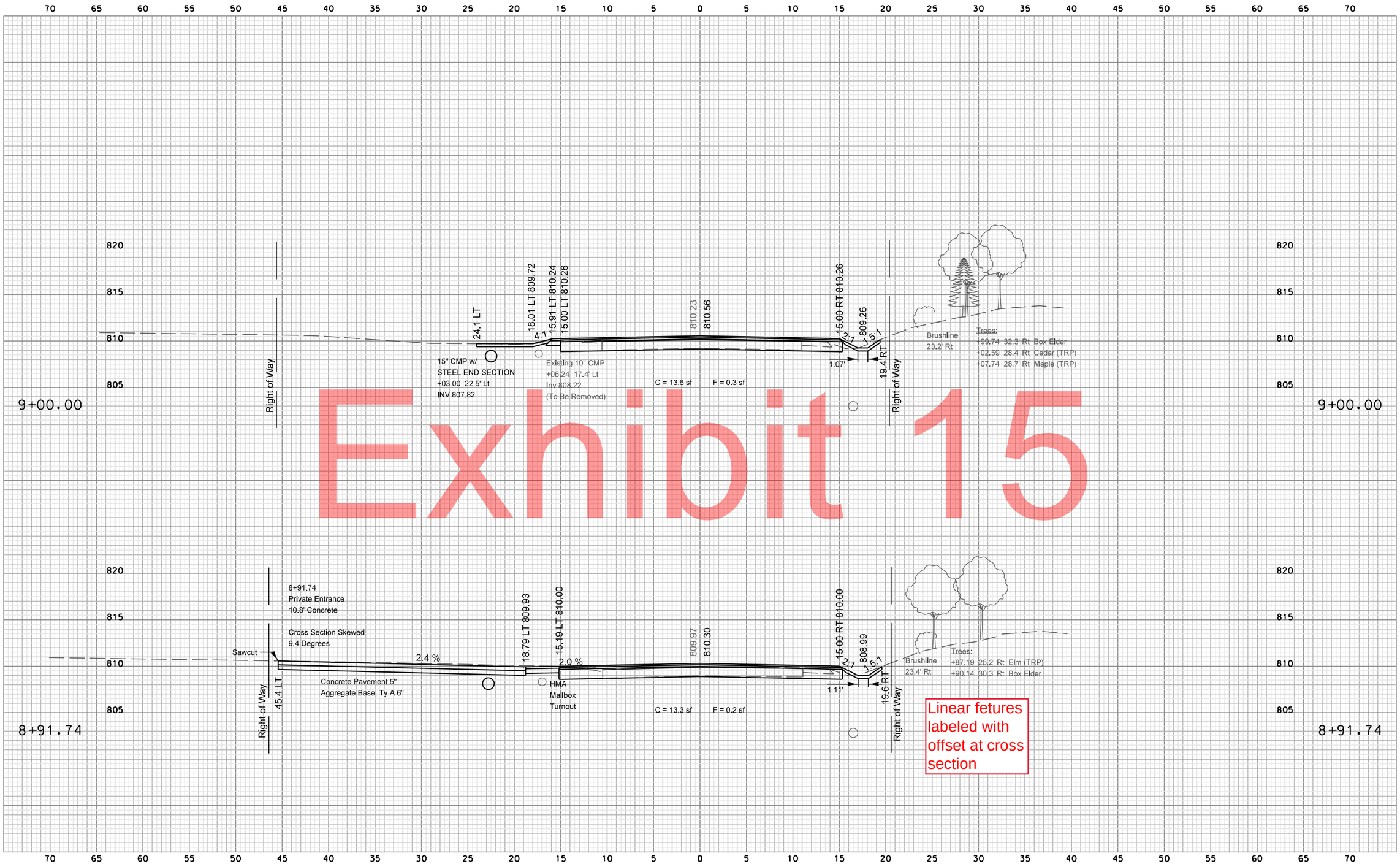


Exhibit 15

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

LakeCounty
Division of Transportation

Fairfield Road - FDR

CROSS SECTION STA. 8+91.74 **TO STA.** 9+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	47	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\XS 180 FDR.dgn

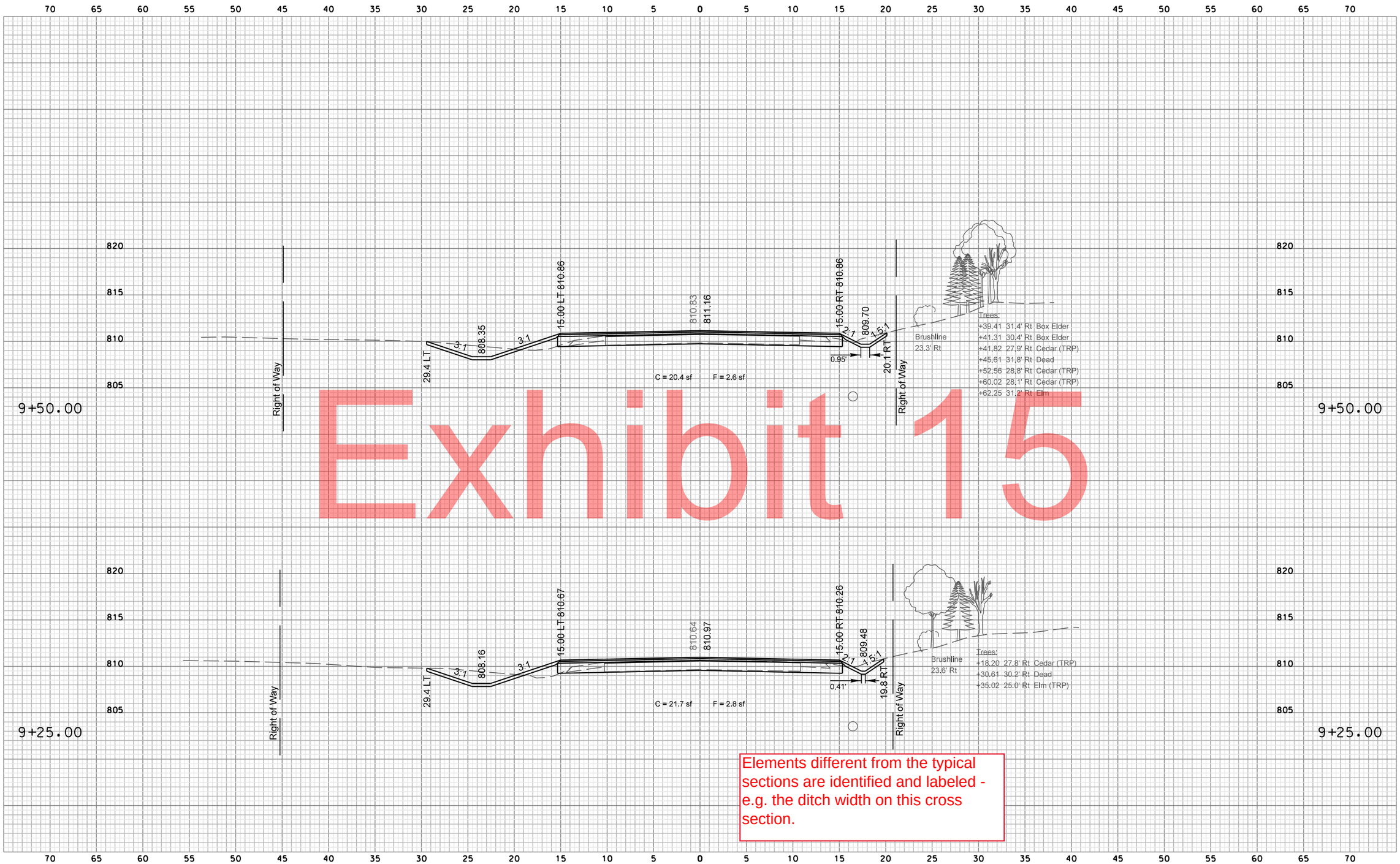


Exhibit 15

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 3/7/2013

LakeCounty
Division of Transportation

Fairfield Road - FDR

CROSS SECTION STA. 9+25.00 **TO STA.** 9+50.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH49	180	00-00180-01-RS	48	194

FILE NAME: Y:\dgn\00-00180-01-RS Fairfield Rd\Plans - 2012\XS 180 FDR.dgn

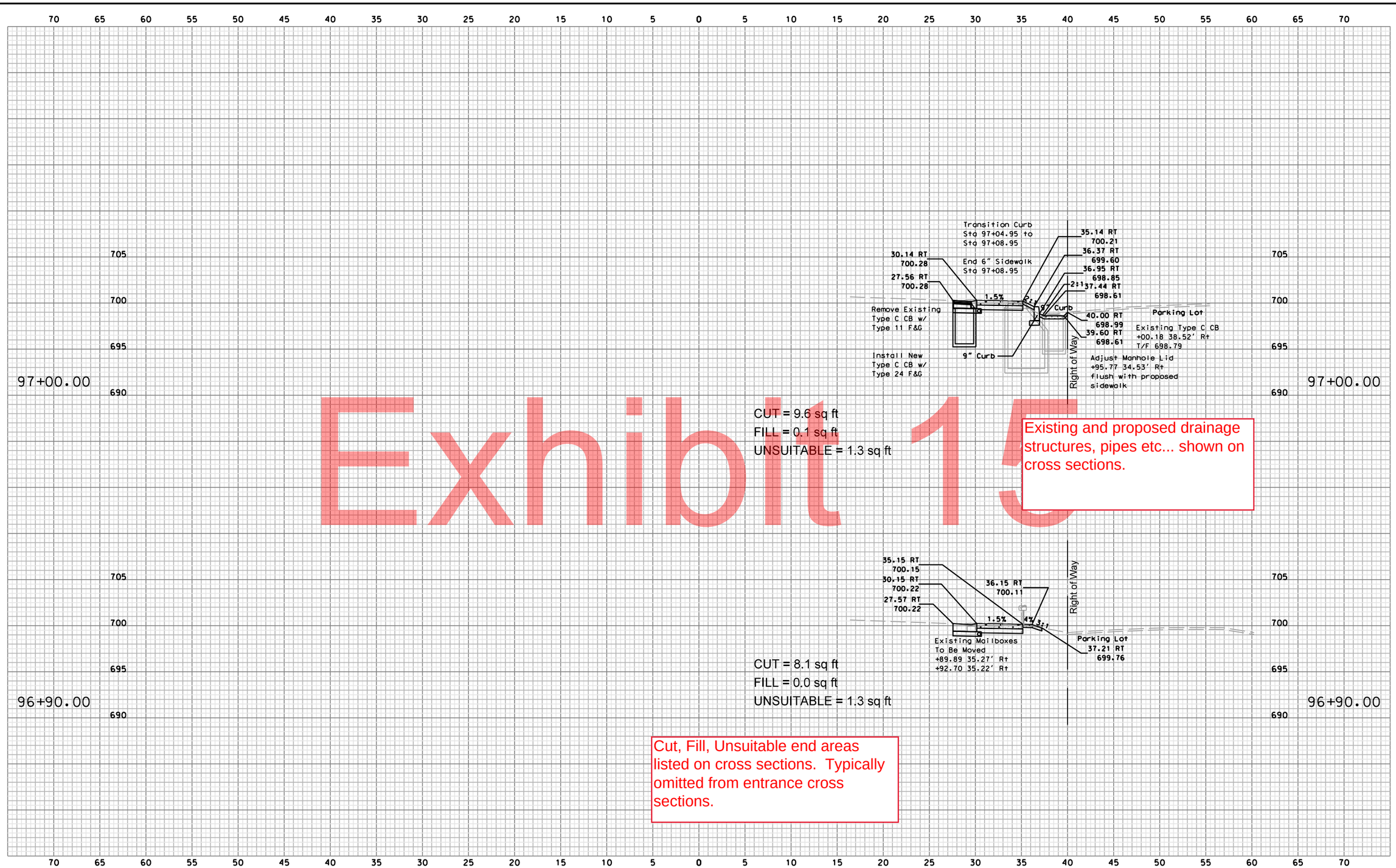


Exhibit 15

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

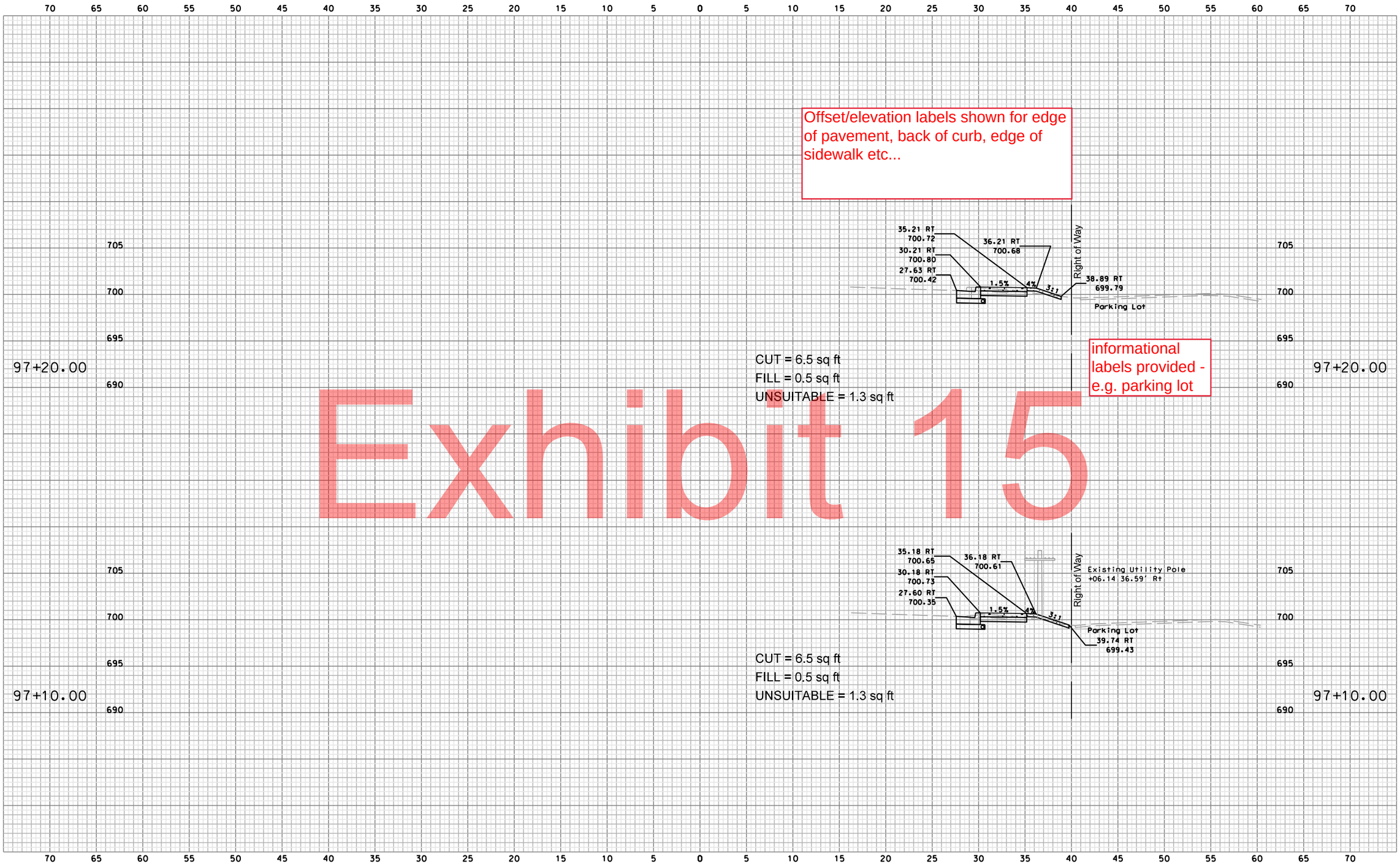
LakeCounty
Division of Transportation

LEWIS AVENUE - RESURFACING

CROSS SECTION STA. 96+90.00 TO STA. 97+00.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	122	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\XS 89 3R.dgn



REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 11/3/2016

LakeCounty
Division of Transportation

LEWIS AVENUE - RESURFACING

CROSS SECTION STA. 97+10.00 TO STA. 97+20.00

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH27	089	16-00089-08-RS	123	199

FILE NAME: U:\Design\McMorris\16-00089-08-RS Lewis Avenue 3R\2016 Plans\XS 89 3R.dgn