



Inland Wetlands Agency

# City of Milford, Connecticut

## Founded 1639

70 West River Street  
Milford, CT 06460-3317  
Telephone (203) 783-3256  
Fax (203) 876-1960

No. IW-\_\_\_\_\_

### APPLICATION FOR PERMIT FOR REGULATED ACTIVITY IN WETLANDS, WATERCOURSES AND REGULATED AREAS

1. Name of Applicant Milford Board of Education, attn: James Richetelli Jr., Chief Operations Officer  
Address (Home) \_\_\_\_\_ Zip \_\_\_\_\_ Tel. \_\_\_\_\_  
Address (Business) 70 West River Street, Milford, CT Zip 06484 Tel. (203) 783-3405
2. Name of Owner City of Milford - Board of Education  
Address (Home) \_\_\_\_\_ Zip \_\_\_\_\_ Tel. \_\_\_\_\_  
Address (Business) same as above Zip \_\_\_\_\_ Tel. \_\_\_\_\_
3. Location of Property Live Oaks School, 575 Merwin Avenue  
(Include street address and identification from Tax Assessor's Map:  
Map 93 Block 703 Parcel 3 USGS Quad Woodmont
4. Total site area:(in acres [square feet /43,560]) 12.7 acres  
Total site area altered:(in acres [square feet /43,560]) 0.9 ac.  
Total Wetland Review Area Altered: 0.3 ac.  
Total Wetlands and/or watercourse area on-site: 2.2 ac. along N. PL and Oyster River  
Total Area of wetland/watercourse that will be disturbed: 0.0 ac.  
Total Wetlands to be enhanced or created: 0.0 ac.  
Total Open Water Body Altered: 0.0 ac.  
Total Stream Alteration: 0.0 linear foot
5. Purpose and Description of Proposed Activity. Use separate sheet if needed. Parking lot expansion to offset lost parking during bus loop modification at main school entrance. 12 existing spaces are being removed, and 16 new spaces are being created.
6. Alternates considered and why this proposal to alter wetlands and/or watercourses was chosen No wetlands or watercourses are being altered. New parking is in lawn area adjacent to existing drive-way. New parking lot has one-way aisle and angled parking spaces to reduce size and width near pond.
7. Names and addresses of all adjoining property owners  
see attached list
8. Attached checklist must be completed, as required by the Agency

#### NOTICE

As the applicant it is your responsibility to submit the data which area necessary for the Inland Wetlands Agency to process your application and to make a fair determination of the issues. Your failure to supply such data may result in the delay, denial, or both. It is important that the applicant and the land surveyor / engineer who shall prepare maps and other plans shall carefully review the Inland Wetlands Regulations to be certain that the plans comply with all requirements contained therein.



You are strongly advised to submit a Pre-Application for reviews by the Inland Wetlands Agency prior to submitting an application.

The undersigned application hereby consents to necessary and proper inspections of the aforementioned property by agents of the Inland Wetlands Agency at reasonable times, both before and after a final decision has been issued by the Agency.

The undersigned applicant understands that the application is considered complete only when all information and documents required by the Agency have been completed to the Agency's satisfaction.

The undersigned warrants the truth and completeness of all statements contained herein and in all supporting documents to the best of her/his knowledge and belief.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name of Applicant

*Terrance Gallagher*  
\_\_\_\_\_  
Signature of Authorized Agent

*5/14/20*  
\_\_\_\_\_  
Date

Terrance Gallagher, P.E.

\_\_\_\_\_  
Print Name of Authorized Agent

Luchs Consulting Engineers, 89 Colony Street, Meriden, CT 06451

\_\_\_\_\_  
Authorized Agent's Address

\_\_\_\_\_  
Signature of Owner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name of Owner

Application Fee \$ 0 - Municipal

Paid \_\_\_\_\_

Date: \_\_\_\_\_

**Legal Counsel for Applicants are Advised as Follows:**

The Milford Inland Wetlands Agency is a lay board. During public hearings, we ask that you limit your presentation to the factual issues before the Agency and summarize only any legal arguments relating to your application. Applicants who wish to submit legal arguments in greater detail must do so in writing prior to the public hearing or at the public hearing. Applicants are advised that the Agency reserves the right to consult with the City Attorney's Office for technical assistance.

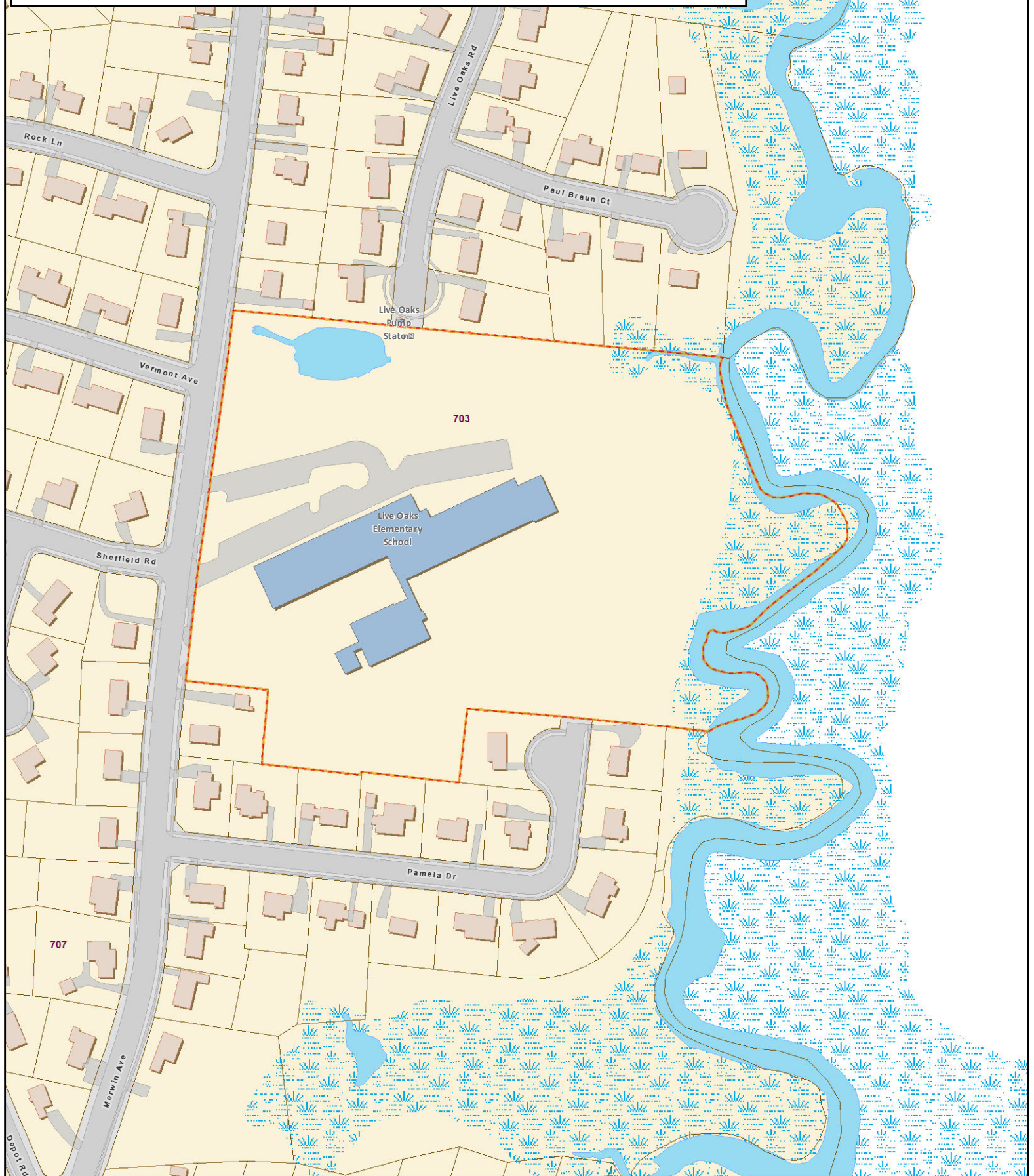




# City of Milford, Connecticut. Assessment Parcel Map

Parcel ID: **19941**

Address: **575 MERWIN AVE**



**1 inch = 200 feet**



Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The City of Milford and its mapping contractors assume no legal responsibility for the information contained herein.

Map Produced: July 2016



Live Oaks School, Milford, CT

Inland Wetlands Application – Parking Modifications 05/12/20

**ADJOINING PROPERTY OWNERS**

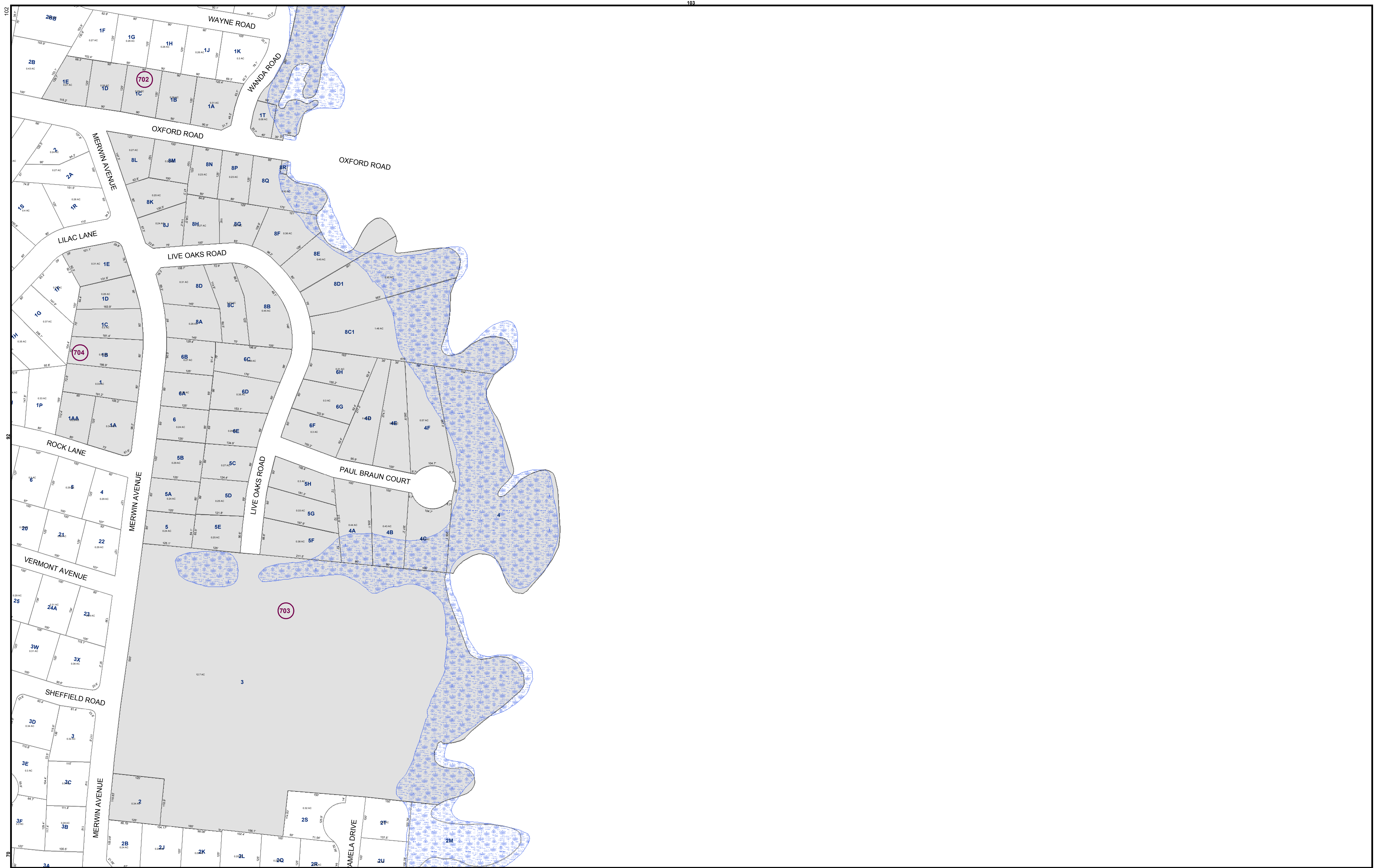
<b>Address</b>	<b>Parcel Number</b>	<b>Owner</b>
615 MERWIN AVE	093 703 5	JAMES W & LINDA A GANUN 615 MERWIN AV MILFORD CT 06460
79 LIVE OAKS RD	093 703 5 E	JOAN GIMLER 79 LIVE OAKS RD MILFORD CT 06460
Live Oaks Pump Station End of Live Oaks Rd	NA	City of Milford
82 LIVE OAKS RD	093 703 5 F	CRAIG R & VIRGINIA E NELSON 82 LIVE OAKS RD MILFORD CT 06460
9 PAUL BRAUN CT	093 703 4 A	ELIZABETH A BAZINET 9 PAUL BRAUN CT MILFORD CT 06460
19 PAUL BRAUN CT	093 703 4 B	MICHAEL JOYE 19 PAUL BRAUN CT MILFORD CT 06460
29 PAUL BRAUN CT	093 703 4 C	DAVID E BARBER 29 PAUL BRAUN CT MILFORD CT 06460
0 PAUL BRAUN CT	093 703 4	CITY OF MILFORD RIVER ST MILFORD CT 06460
Oyster River	NA	City of West Haven
0 PAMELA DR	082 703 2 M	CITY OF MILFORD RIVER ST MILFORD CT 06460
69 PAMELA DR	082 703 2 T	EDWARD C & SHEA 69 PAMELA DR MILFORD CT 06460
Pamela Dr. R.O.W.	NA	City of Milford
60 PAMELA DR	082 703 2 S	LINDA LOWREY & LANGLAIS 60 PAMELA DR MILFORD CT 06460
36 PAMELA DR	082 703 2 Q	ROBERT G BAYE 36 PAMELA DR MILFORD CT 06460
28 PAMELA DR	082 703 2 L	WALLJOHN H & HALL 28 PAMELA DR MILFORD CT 06460



Address	Parcel Number	Owner
20 PAMELA DR	082 703 2 K	MARK E MICHEK 20 PAMELA DR MILFORD CT 06460
12 PAMELA DR	082 703 2 J	DONALD R III & LINDSAY E JOHNSON 12 PAMELA DR MILFORD CT 06460
555-557 MERWIN AVE	093 703 2	ROBERT K & DEBILI 555 MERWIN AV MILFORD CT 06460
Merwin Ave. R.O.W.	NA	City of Milford

TG:Q:\Projects\Luchs Projects\19025 Live Oak School - Milford\Permits\Milford- IWA\2020\_05\_14 MIWA  
Application\Live Oaks School Adjoiners List 05-15-20.docx







February 24, 2020

Mr. Jeff Hopper  
Luchs Consulting Engineers  
89 Colony Street  
Meriden, CT 06451

Re: Wetland and Watercourse Delineation  
Live Oaks Elementary School, 575 Merwins Avenue, Milford, Connecticut

Dear Mr. Hopper:

As requested, we investigated a portion of the Live Oaks Elementary School property to determine the presence or absence of wetlands and/or watercourses, to demarcate (flag) the boundaries of wetlands and watercourses identified, and to identify onsite soil types. This letter includes the methods and results of our investigation, which we completed today, February 24, 2020. In summary, one inland wetland and watercourse system was identified and delineated. The system, which extends and flows west to east in the northern portion of the property, is a small stream and manmade pond with bordering woodland wetlands. No tidal wetlands or watercourses were identified within the investigation area.

### ***Regulatory Definitions***

The Inland Wetlands and Watercourses Act (Connecticut General Statutes §22a-38) defines inland wetlands as “land, including submerged land...which consists of any soil types designated as poorly drained, very poorly drained, alluvial, and floodplain.” Watercourses are defined in the act as “rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof.” The Act defines Intermittent Watercourses as having a defined permanent channel and bank and the occurrence of two or more of the following characteristics: A) evidence of scour or deposits of recent alluvium or detritus, B) the presence of standing or flowing water for a duration longer than a particular storm incident, and C) the presence of hydrophytic vegetation.

The Tidal Wetlands Act (Connecticut General Statutes §22a-29) defines wetlands as those areas which border on or lie beneath tidal waters, such as, but not limited to banks, bogs, salt marsh,



swamps, meadows, flats, or other low lands subject to tidal action, including those areas now or formerly connected to tidal waters, and whose surface is at or below an elevation of one foot above local extreme high water; and upon which may grow or be capable of growing hydrophytic vegetation as identified in the Statutes.

### ***Methodology***

A second order soil survey in accordance with the principles and practices noted in the USDA publication *Soil Survey Manual* (1993) was completed at the subject site. The classification system of the National Cooperative Soil Survey was used in this investigation. Soil map units identified at the project site generally correspond to those included in the *Soil Survey of the State of Connecticut* (USDA 2005).

Wetland determinations were completed based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land (e.g. a pond). Soil types were identified by observation of soil morphology (soil texture, color, structure, etc.). To observe the morphology of the property's soils, test pits and/or borings (maximum depth of two feet) were completed at the site.

Tidal wetland determinations were completed based on the presence of a predominance of tidal wetland vegetation in wetland areas that are below an elevation that is one foot above local extreme high water.

Intermittent watercourse determinations were made based on the presence of a defined permanent channel and bank and two of the following characteristics: A) evidence of scour or deposits of recent alluvium or detritus, B) the presence of standing or flowing water for a duration longer than a particular storm incident, and C) the presence of hydrophytic vegetation.

Wetland and watercourse boundaries were demarcated (flagged) with pink surveyor's tape (hung from vegetation) or small flags (on wire stakes) labeled "William Kenny Associates" that are generally spaced a maximum of every 50 feet. Complete boundaries are located along the lines that connect these sequentially numbered flags. The wetland and watercourse boundaries are subject to change until adopted by local, state, or federal regulatory agencies.

### ***Results***

The approximate 12.7-acre school property is located at Live Oaks Elementary School, 575 Merwin Avenue in Milford, Connecticut. Merwin Avenue borders the western property boundary. The investigation was limited to the area shown on the attached map. Property improvements include an elementary school building and an asphalt drive and parking area. The primary vegetative cover in the investigation area is lawn with other ornamentals and some shade trees. A broadleaved deciduous woodland is present in the northern portion of the investigation area. On the day of the review, the sky was clear and air temperatures were in the 50's ° F.

One inland wetland and watercourse system was identified and delineated. The system, which extends and flows west to east in the northern portion of the property, is a small stream and manmade pond with bordering woodland wetlands. Wetland soils are primarily poorly drained and formed from



alluvial deposits or are forming in human altered deposits. The approximate location of the system is shown on the attached map. The boundary of the system was marked at the site with flags numbered 1 to 16 and 20 to 33. No tidal wetlands or watercourses were identified within the investigation area.

Four soil map units were identified on the property two wetland and two upland). Each map unit represents a specific area on the landscape and consists of one or more soils for which the unit is named. Other soils (inclusions that are generally too small to be delineated separately) may account for 10 to 15 percent of each map unit. The mapped units are identified in the following table by name and symbol and typical characteristics (parent material, drainage class, high water table, depth to bedrock, and slope). These characteristics are generally the primary characteristics to be considered in land use planning and management. A description of each characteristic and their land use implications follows the table. A complete description of each soil map unit can be found in the *Soil Survey of the State of Connecticut* (USDA 2005), and at <https://soilseries.sc.egov.usda.gov/osdname.aspx>. On the day of the review, there was no soil frost and no snow cover. The upland soil was moist and the wetland soil was wet to inundated.

<u>Sym.</u>	<u>Map Unit</u> <u>Name</u>	<u>Parent</u> <u>Material</u>	<u>Slope</u> <u>(%)</u>	<u>Drainage</u> <u>Class</u>	<u>High Water Table</u>			<u>Depth To</u> <u>Bedrock</u> <u>(in)</u>
					<u>Depth</u> <u>(ft)</u>	<u>Kind</u>	<u>Mos.</u>	
<b><u>Upland Soil</u></b>								
<b>32</b>	<i>Haven and Enfield silt Loam</i>	<i>Glacial Outwash</i>	<i>0-15</i>	<i>Well Drained</i>	<i>&gt;6.0</i>	<i>--</i>	<i>--</i>	<i>&gt;60</i>
<b>308</b>	<i>Udorthents, Smoothed</i>	<i>Excavated or Filled Soil (&gt;2 feet)</i>	<i>0-45</i>	<i>Well Drained to Somewhat Poorly Drained</i>	<i>1.5-&gt;6.0</i>	<i>Apparent</i>	<i>Nov-May</i>	<i>&gt;60</i>
<b><u>Wetland Soil</u></b>								
<b>1</b>	<i>Aquents</i>	<i>Excavated or Filled Soil (&gt;2 feet)</i>	<i>0-3</i>	<i>Very Poorly Drained</i>	<i>0.0-1.5</i>	<i>Apparent</i>	<i>Nov-May</i>	<i>&gt;60</i>
<b>109</b>	<i>Fluvaquents-Udfluvents complex, frequently flooded</i>	<i>Alluvium</i>	<i>0-3</i>	<i>Well Drained</i>	<i>1.0-1.5</i>	<i>Apparent</i>	<i>Oct-Jun</i>	<i>&gt;60</i>
		<i>Alluvium</i>	<i>0-3</i>	<i>Poorly Drained</i>	<i>1.5-3.0</i>	<i>Apparent</i>	<i>Nov-Apr</i>	

Parent material is the unconsolidated organic and mineral material in which soil forms. Soil inherits characteristics, such as mineralogy and texture, from its parent material. Glacial till is unsorted, nonstratified glacial drift consisting of clay, silt, sand, and boulders transported and deposited by glacial ice. Glacial outwash consists of gravel, sand, and silt, which are commonly stratified and deposited by glacial melt water. Alluvium is material such as sand, silt, or clay, deposited on land by streams. Organic deposits consist of decomposed plant and animal parts.

A soil's texture affects the ease of digging, filling, and compacting and the permeability of a soil. Generally sand and gravel soils, such as outwash soils, have higher permeability rates than most



glacial till soils. Soil permeability affects the cost to design and construct subsurface sanitary disposal facilities and, if too slow or too fast, may preclude their use. Outwash soils are generally excellent sources of natural aggregates (sand and gravel) suitable for commercial use, such as construction sub base material. Organic layers in soils can cause movement of structural footings. Compacted glacial till layers make excavating more difficult and may preclude the use of subsurface sanitary disposal systems or increase their design and construction costs if fill material is required.

Generally, soils with steeper slopes increase construction costs, increase the potential for erosion and sedimentation impacts, and reduce the feasibility of locating subsurface sanitary disposal facilities.

Drainage class refers to the frequency and duration of periods of soil saturation or partial saturation during soil formation. Seven classes of natural drainage classes exist. They range from excessively drained, where water is removed from the soil very rapidly, to very poorly drained, where water is removed so slowly that free water remains at or near the soil surface during most of the growing season. Soil drainage affects the type and growth of plants found in an area. When landscaping or gardening, drainage class information can be used to assure that proposed plants are adapted to existing drainage conditions or that necessary alterations to drainage conditions (irrigation or drainage systems) are provided to assure plant survival.

High water table is the highest level of a saturated zone in the soil in most years. The water table can affect the timing of excavations; the ease of excavating, constructing, and grading; and the supporting capacity of the soil. Shallow water tables may preclude the use of subsurface sanitary disposal systems or increase design and construction costs if fill material is required.

The depth to bedrock refers to the depth to fixed rock. Bedrock depth affects the ease and cost of construction, such as digging, filling, compacting, and planting. Shallow depth bedrock may preclude the use of subsurface sanitary disposal systems or increase design and construction costs if fill material is required.



Mr. Jeff Hopper  
Re: Live Oaks School, 575 Merwin Avenue, Milford, Connecticut

February 24, 2020  
Page 5

***Conclusions***

Today, we investigated a portion of the property at Live Oak Elementary School, 575 Merwin Avenue in Milford, Connecticut and identified and delineated one inland wetland and watercourse system. No tidal wetlands or watercourses were identified within the investigation area. Thank you for the opportunity to assist you. If you should have any questions or comments, please do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink, reading "William L. Kenny". The signature is written in a cursive style with a large, stylized "W" and "K".

William L. Kenny, PWS, PLA  
Soil Scientist

Enclosure

*Ref. No. 4432*



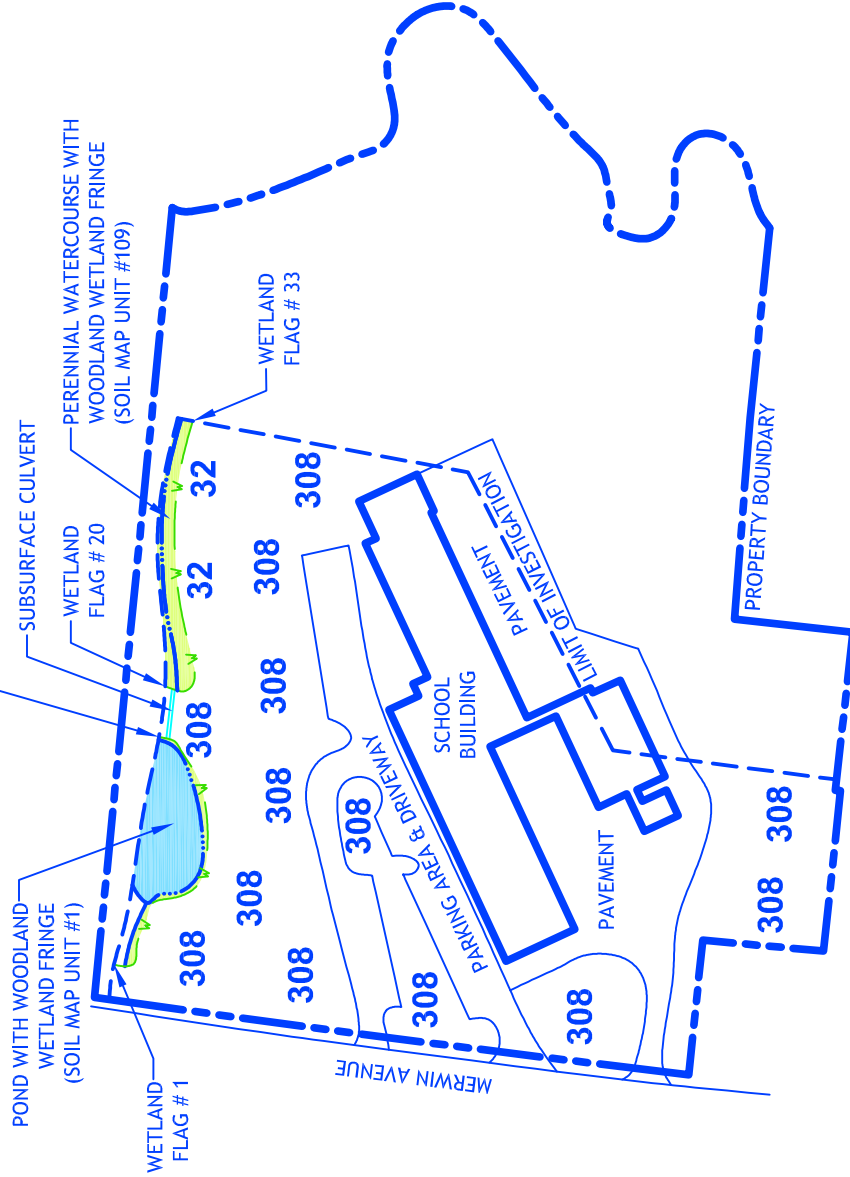
SOIL LEGEND:

UPLAND:

- 32 HAVEN AND ENFIELD SILT LOAM
- 308 UDORTHENTS, SMOOTHED

WETLAND:

- 1 AQUENTS
- 109 FLUVAQUENTS-UDIFLUVENTS COMPLEX



**WILLIAM KENNY  
ASSOCIATES LLC**

SOIL SCIENCE  
ECOLOGICAL SERVICES  
LAND USE PLANNING  
LANDSCAPE ARCHITECTURE

195 TUNXIS HILL  
CUTOFF SOUTH  
FAIRFIELD, CT 06825  
PHONE: 203 366 0588  
FAX: 203 366 0067  
www.wkassociates.net

NOTES:

- INFORMATION SHOWN ON THIS DRAWING, INCLUDING THE WETLAND BOUNDARY, IS APPROXIMATE. THE BOUNDARY IS NOT A SURVEYED REPRESENTATION OF WHAT WAS FIELD MARKED (FLAGGED).
- WETLAND AND SOIL INFORMATION PROVIDED BY WILLIAM KENNY ASSOC.
- OTHER INFORMATION TAKEN FROM A CITY OF MILFORD GIS MAP. 32, 308, 1 AND 109 ARE SOIL MAPPING UNIT SYMBOLS. SEE WETLAND DELINEATION REPORT FOR THE SOIL MAP UNIT NAMES AND ADDITIONAL RELATED INFORMATION.

**WETLAND & WATERCOURSE MAP**

**LIVE OAKS ELEMENTARY SCHOOL  
575 MERWIN AVENUE  
MILFORD, CONNECTICUT**

SCALE: NOT TO SCALE  
DATE: FEBRUARY 24, 2020

I CERTIFY THAT THIS WETLAND MAP  
SUBSTANTIALLY REPRESENTS THE SOILS  
AND WETLANDS MAPPED IN THE FIELD

WILLIAM L. KENNY, SOIL SCIENTIST



NORTH

Ref. No. 4432



## Office of Long Island Sound Programs Coastal Jurisdiction Line Elevations

Elevations Referenced to NAVD88

Long Island Sound	
Greenwich	5.5'
Stamford	5.5'
Darien	5.5'
Norwalk	5.4'
Westport	5.3'
Fairfield	5.2'
Bridgeport	5.0'
Stratford*	4.8'
Milford*	4.7'
Orange*	4.7'
West Haven	4.6'
New Haven	4.6'
Hamden	4.6'
North Haven	4.6'
East Haven	4.5'
Branford	4.3'
Guilford	4.0'
Madison	3.7'
Clinton	3.4'
Westbrook	3.2'
Old Saybrook	2.9'
Old Lyme*	2.6'
East Lyme	2.3'
Waterford*	2.1'
New London*	2.0'
Groton*	2.0'
Stonington	2.0'

Connecticut River	
Old Lyme*	2.9'
Old Saybrook	2.9'
Lyme	2.9'
Essex	2.8'
Deep River	2.9'
Chester	2.9'
East Haddam	3.0'
Haddam	3.0'
East Hampton	3.0'
Middletown	3.1'
Portland	3.3'
Cromwell	3.3'
Rocky Hill	3.4'
Glastonbury	3.5'
Wethersfield	3.6'
East Hartford	3.8'
Hartford	3.8'
South Windsor	3.9'
Windsor	3.9'
East Windsor	15.0'
Windsor Locks	15.0'
Suffield	40.5'
Enfield	40.5'

Thames River	
New London*	2.1'
Groton*	2.1'
Waterford*	2.2'
Ledyard	2.3'
Montville	2.3'
Preston	2.3'
Norwich	2.4'

Housatonic River	
Stratford*	5.0'
Milford*	5.1'
Shelton	5.4'
Orange	5.4'
Ansonia	5.4'
Derby	5.4'

\*- Municipalities with two CJL elevations.



# National Flood Hazard Layer FIRMette



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

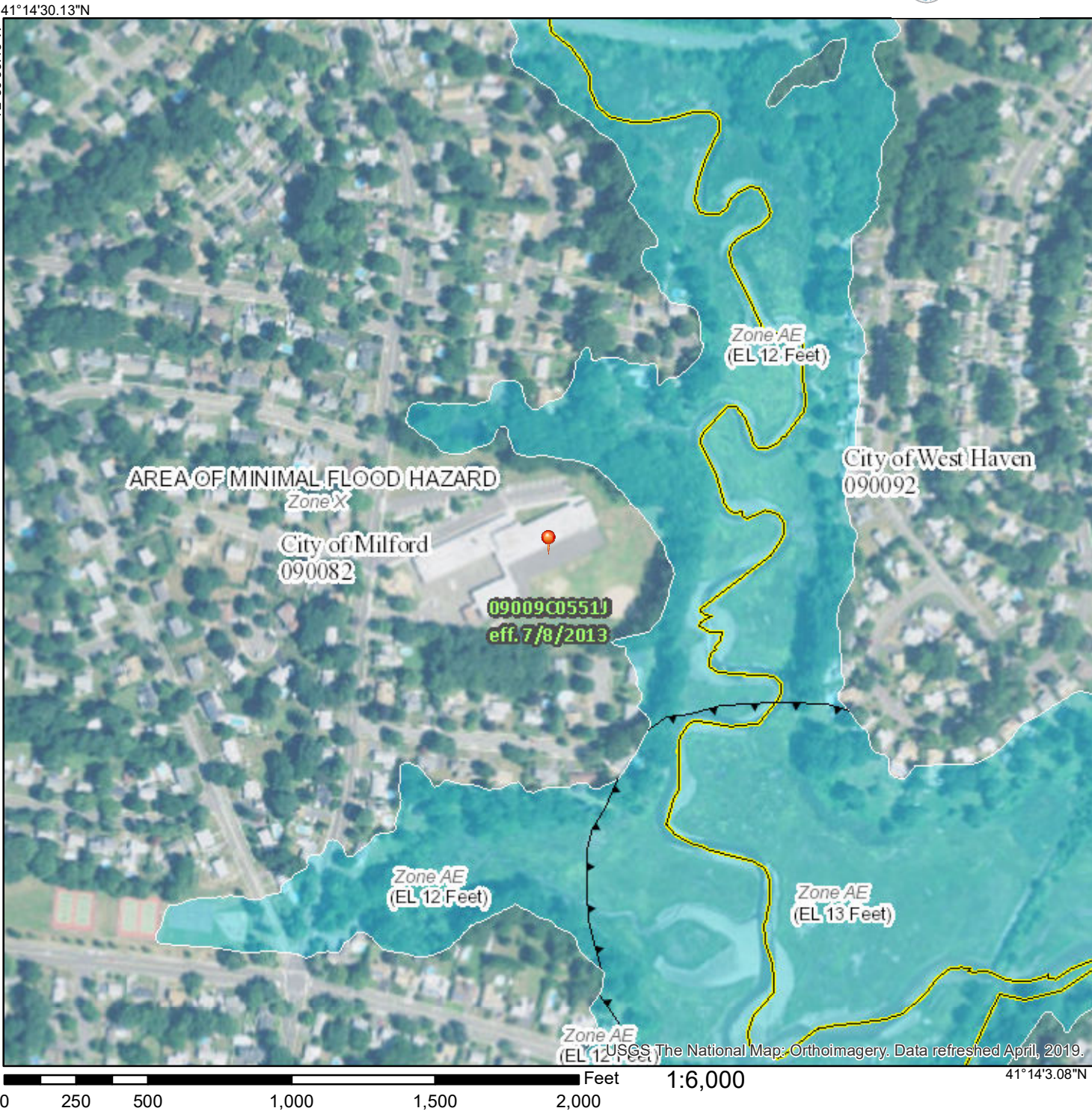


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/13/2020 at 2:12:25 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





## **Project Narrative**

The Milford Board of Education is improving traffic circulation patterns at Live Oaks School. The existing bus drop-off area has parking spaces that back out into the bus driveway and limited areas for bus staging during student drop off and pick up. The proposed modifications keep the bus drop off in the same location, but eliminate the parking spaces, enlarge the bus loop, add concrete curb and sidewalk, along with handicapped-accessible ramps and traffic bollards. The existing playground and most of the paved yards near the existing loop will remain. The existing parking spaces will be replaced with lawn.

To offset the 12 lost parking spaces a new parking lot is being created on the north side of the property for 16 new spaces near the parent drop-off area. This is a lawn area that is near a small pond on the north side of the school property. The new parking lot and slope are not impacting any wetlands directly, but are within the 100 foot Upland Review Area to the wetlands. The toe of the proposed grass slope along the new parking would be near the outdoor classroom that is located south of the pond. The large 60 inch Live Oak that is near the existing north driveway would remain. The remainder of the school campus would remain undisturbed.

The existing bus loop and new parking lot are scheduled for construction is summer, 2020 for the Fall school year.

## **Sediment and Erosion Control Sequence**

The following general construction sequence is anticipated:

1. Hold a pre-construction meeting on-site once a contractor is selected to discuss operations and a detailed construction sequence.
2. Install tree protection and erosion controls at bus loop, and north parking lot.
3. Construct new bus loop, curb and sidewalks.
4. Strip topsoil and place fill for north parking lot. Install erosion control blankets on slope and silt fence at top of slope after topsoil is placed.
5. Install curbing and parking base for new lot and pave lot.
6. Topsoil, seed, mulch and water remaining disturbed areas.
7. Install timber guiderail, signs, and traffic striping.
8. Remove erosion controls after all upland areas are fully stabilized.

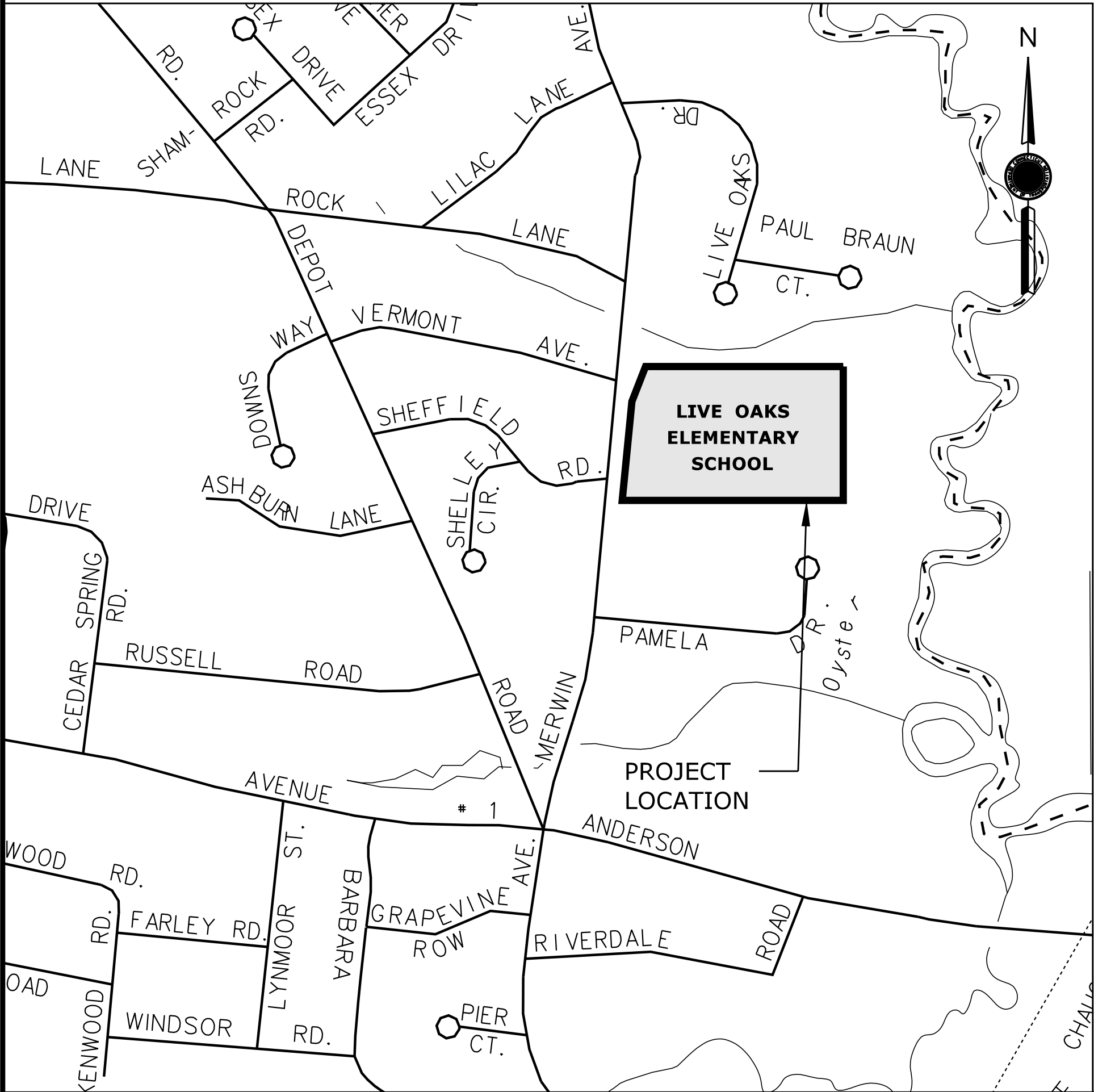


# LIVE OAKS ELEMENTARY SCHOOL PARKING LOT IMPROVEMENTS



## MILFORD, CT

LOCATION MAP



**MR. BENJAMIN G. BLAKE, MAYOR**  
**MR. JAMES L. RICHELLETTI JR., CHIEF OPERATIONS OFFICER**  
**MILFORD PUBLIC SCHOOLS**  
**ROSEMARIE MARZINOTTO, PRINCIPAL**

### MAY 2020

INDEX OF DRAWINGS

SHEET NO.	DRAWING NO.	DRAWING TITLE
1	TSH-01	TITLE SHEET
2	EX-01	EXISTING CONDITION PLAN
3	SED-01	SEDIMENTATION AND EROSION CONTROL PLAN
4-5	PLN-01 TO PLN-02	SITE PLANS
6-7	SPM-01 TO SPM-02	SIGNING AND PAVEMENT MARKING PLANS
8-9	SLP-01 TO SLP-02	SITE LAYOUT PLANS
10-17	MDS-01 TO MDS-06	DETAIL SHEETS

				DESIGNER/DRAFTER: <b>JH/MF</b>			SIGNATURE/ BLOCK:	PROJECT TITLE: <b>LIVE OAKS ELEMENTARY SCHOOL PARKING LOT IMPROVEMENTS</b>	TOWN: <b>MILFORD</b>	PROJECT NO. <b>19025</b>
				CHECKED BY: <b>DD</b>						DRAWING NO. <b>TSH-01</b>
										SHEET NO. <b>1</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/14/2020	Filename: ...\\Live -Oaks TSH-1.dgn		ISSUE DATE: 12-12-2019			



NOTES:

1. THIS SURVEY AND MAP HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. THE TYPE OF SURVEY IS A PROPERTY & TOPOGRAPHIC SURVEY CONFORMING TO CLASS A-2 HORIZONTAL AND T-2 VERTICAL ACCURACY.
2. BEARINGS REFER TO THE CONNECTICUT COORDINATE SYSTEM (NAD 83/87) BASED UPON THE "SUPERIOR GPS NETWORK" PROVIDED BY REAL TIME SURVEY GRADE GPS ROVER.
3. ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (NAVD 88) BASED UPON THE "SUPERIOR GPS NETWORK" PROVIDED BY REAL TIME SURVEY GRADE GPS ROVER.
4. WETLAND LIMITS DEPICTED HEREON ARE FROM WETLANDS FIELD DELINEATION BY WILLIAM KENNY ASSOCIATES, LLLC AND FIELD LOCATION BY LUCHS CONSULTING ENGINEERS.

LEGEND

STREET LINE  
PROPERTY LINE  
BITUMINOUS CONC. CURB  
MONUMENT  
CATCH BASIN  
WATER VALVE  
GAS VALVE  
MANHOLE  
SIGN POST  
FENCE  
CHAIN LINK FENCE  
BUILDING  
CONTOUR (5' INTERVAL)  
CONTOUR (1' INTERVAL)  
SANITARY SEWER  
STORM SEWER  
WATER MAIN  
GAS MAIN

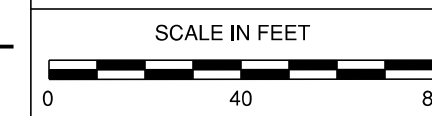
REV.	DATE	REVISION DESCRIPTION	SHEET NO.



Plotted Date: 5/14/2020

DESIGNER/DRAFTER:

CHECKED BY:



SCALE 1"=40'

Filename: ...\\Live Oaks Ex-1.dgn

DATE: 5/14/2020

SIGNATURE BLOCK:
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PROJECT TITLE:
----------------

LIVE OAKS ELEMENTARY SCHOOL  
PARKING LOT IMPROVEMENTS

TOWN:
-------

MILFORD

DRAWING TITLE:

# EXISTING CONDITION PLAN

PROJECT NO.  
19025

DRAWING NO.  
EX-01

SHEET NO. 2



PROJECT INFORMATION

The Milford Board of Education is improving traffic circulation patterns at Live Oaks School. The existing south drop-off area has parking spaces that back out into the driveway and limited areas for bus staging during student drop off and pick up. The proposed modifications move the bus drop-off to the south entrance, eliminate the parking spaces, enlarge the loop, add concrete curb and sidewalk, along with handicapped-accessible ramps and traffic bollards. The existing playground and most of the paved yards near the existing loop will remain. The existing parking spaces will be replaced with lawn.

The north entrance will serve as the parent drop-off area. To offset the 12 lost parking spaces a new parking lot is being created on the north side of the property for 16 new spaces north of the parking lot. This is a lawn area that is near a small pond on the north side of the school property. The new parking lot and slope are not impacting any wetlands directly, but are within the 100 foot Upland Review Area to the wetlands. The toe of the proposed grass slope along the new parking would be near the outdoor classroom that is located south of the pond. The large 60 inch Live Oak that is near the existing north driveway would remain. The remainder of the school campus would remain undisturbed.

The existing bus loop and new parking lot are scheduled for construction is summer, 2020 for the Fall school year.

SEDIMENT AND EROSION CONTROL SEQUENCE

- The following general construction sequence is anticipated:
1. Hold a pre-construction meeting on-site once a contractor is selected to discuss operations and a detailed construction sequence.
  2. Install tree protection and erosion controls at bus loop, and north parking lot.
  3. Construct new bus loop, curb and sidewalks.
  4. Strip topsoil and place fill for north parking lot. Install erosion control blankets on slope and silt fence at top of slope after topsoil is placed.
  5. Install curbing and parking base for new lot and pave lot.
  6. Topsoil, seed, mulch and water remaining disturbed areas.
  7. Install timber guiderail, signs, and traffic striping.
  8. Remove erosion controls after all upland areas are fully stabilized.

DC  
DUST CONTROL  
SWEEP EX. DRIVEWAYS  
AND ROADS (TYP.)

CE  
INSTALL  
CONSTRUCTION  
ENTRANCE

SS  
SEDIMENTATION CONTROL  
AT CATCH BASIN

SF  
INSTALL SILT FENCE

SS  
SEDIMENTATION CONTROL  
AT CATCH BASIN

TP  
TREE PROTECTION

SS  
SEDIMENTATION CONTROL AT CATCH BASIN

CE  
CONSTRUCTION ENTRANCE

ES  
EARTH STOCKPILE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



Plotted Date: 5/14/2020

DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET

0 40 80

SCALE 1"=40'

Filename: ...Live Oaks SED-1.dgn

DATE: 5/14/2020

SIGNATURE/  
BLOCK:

PROJECT TITLE:

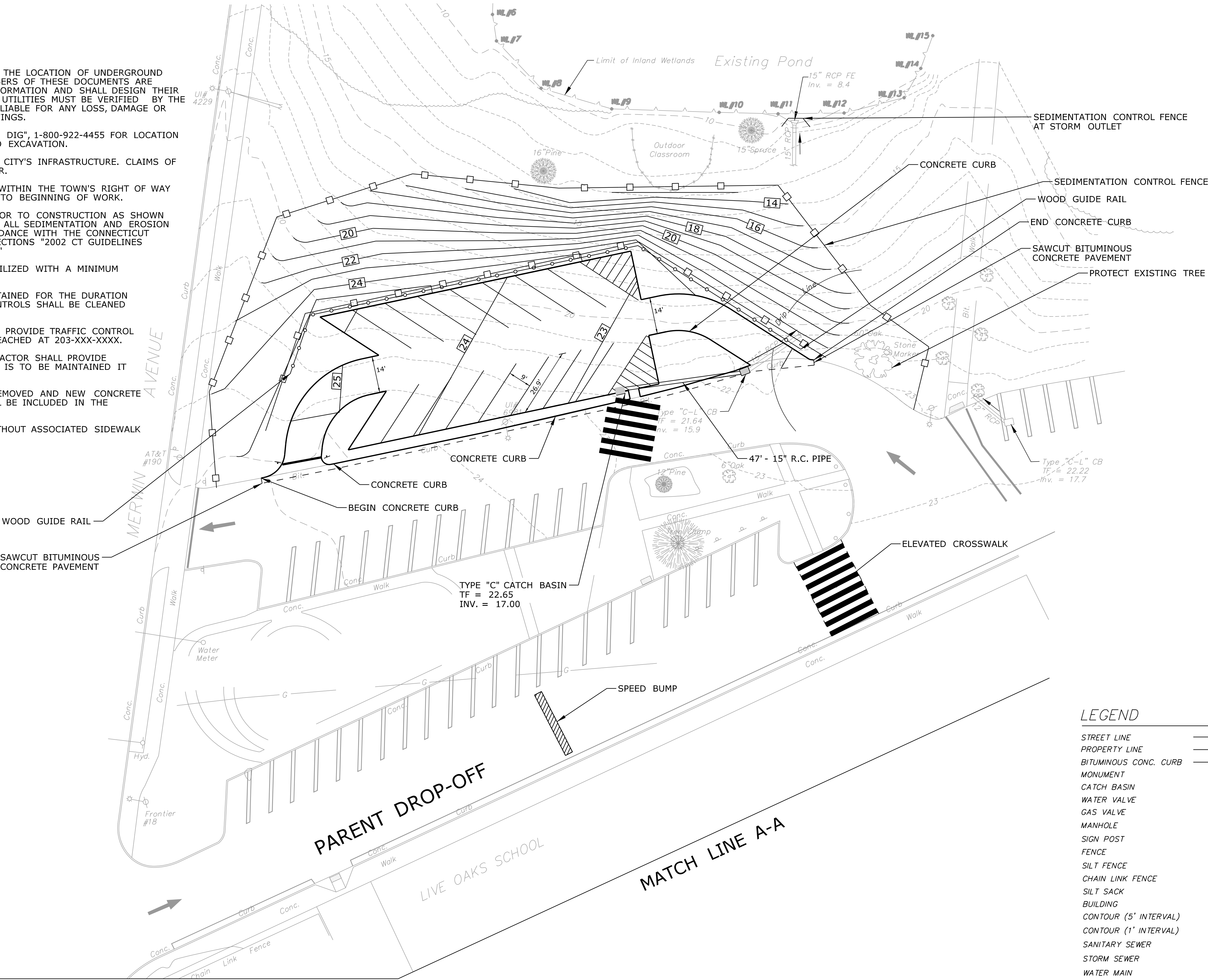
LIVE OAKS ELEMENTARY SCHOOL  
PARKING LOT IMPROVEMENTS

TOWN:	MILFORD	PROJECT NO.	19025
DRAWING TITLE:	SEDIMENTATION AND EROSION CONTROL PLAN	DRAWING NO.	SED-01
		SHEET NO.	3



GENERAL NOTES

1. THE INFORMATION ON THESE DRAWINGS REPRESENT THE LOCATION OF UNDERGROUND UTILITIES OWNED BY THE CITY OF MILFORD. THE USERS OF THESE DOCUMENTS ARE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION AND SHALL DESIGN THEIR WORK ACCORDINGLY. THE ACTUAL LOCATION OF THE UTILITIES MUST BE VERIFIED BY THE CONTRACTOR. THE CITY OF MILFORD SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE OR CLAIMS THAT ARISE FROM THE USE OF THESE DRAWINGS.
2. THE CONTRACTOR MUST CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455 FOR LOCATION AND MARKING OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION.
3. THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE CITY'S INFRASTRUCTURE. CLAIMS OF DAMAGE REMAIN WITH THE CONTRACTOR FOR REPAIR.
4. ANY EXCAVATION WITHIN THE DRIP LINE OF TREES WITHIN THE TOWN'S RIGHT OF WAY MUST RECEIVE CITY TREE WARDEN APPROVAL PRIOR TO BEGINNING OF WORK.
5. SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTIONS "2002 CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTRL MANUAL."
6. ALL SLOPES OR DISTURBED AREAS ARE TO BE STABILIZED WITH A MINIMUM 4" TOPSOIL AND TURF MUST BE ESTABLISHED.
7. SEDIMENT AND EROSION CONTROLS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. SEDIMENTATION AND EROSION CONTROLS SHALL BE CLEANED AS NECESSARY.
8. UNIFORMED CITY OF MILFORD POLICE OFFICER(S) TO PROVIDE TRAFFIC CONTROL WHEN REQUIRED. POLICE SCHEULING SHOULD BE REACHED AT 203-XXX-XXXX.
9. ALL WORK AREAS SHALL BE MAINTAINED. THE CONTRACTOR SHALL PROVIDE PROTECTION TO THE PUBLIC. WHERE TRAFFIC FLOW IS TO BE MAINTAINED IT SHALL BE IN A SAFE AND CLEAR MANNER.
10. IN AREAS WHERE CONCRETE SIDEWALK IS TO BE REMOVED AND NEW CONCRETE SIDEWALK IS TO BE INSTALLED, THE REMOVAL SHALL BE INCLUDED IN THE INSTALLATION OF THE NEW CONCRETE SIDEWALK.
11. THE REMOVAL OF CONCRETE CURBING IN AREAS WITHOUT ASSOCIATED SIDEWALK SHALL BE PAID FOR UNDER EARTH EXCAVATION.



LEGEND

STREET LINE	---
PROPERTY LINE	---
BITUMINOUS CONC. CURB	---
MONUMENT	□
CATCH BASIN	cb
WATER VALVE	ov
GAS VALVE	gv
MANHOLE	mh
SIGN POST	σ
FENCE	---#---#---#---
SILT FENCE	---□---□---□---
CHAIN LINK FENCE	---#---#---#---
SILT SACK	■
BUILDING	---
CONTOUR (5' INTERVAL)	-50-
CONTOUR (1' INTERVAL)	-49-
SANITARY SEWER	---
STORM SEWER	==
WATER MAIN	-W-
GAS MAIN	-G-

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER:	
CHECKED BY:	
SCALE IN FEET	
0 40 80	
SCALE 1"=40'	

Filename: ...\\Live Oaks PLN-1.dgn

DATE: 5/14/2020

SIGNATURE/ BLOCK:	
PROJECT TITLE:	

LIVE OAKS ELEMENTARY SCHOOL  
PARKING LOT IMPROVEMENTS

TOWN:	MILFORD
DRAWING TITLE:	SITE PLAN

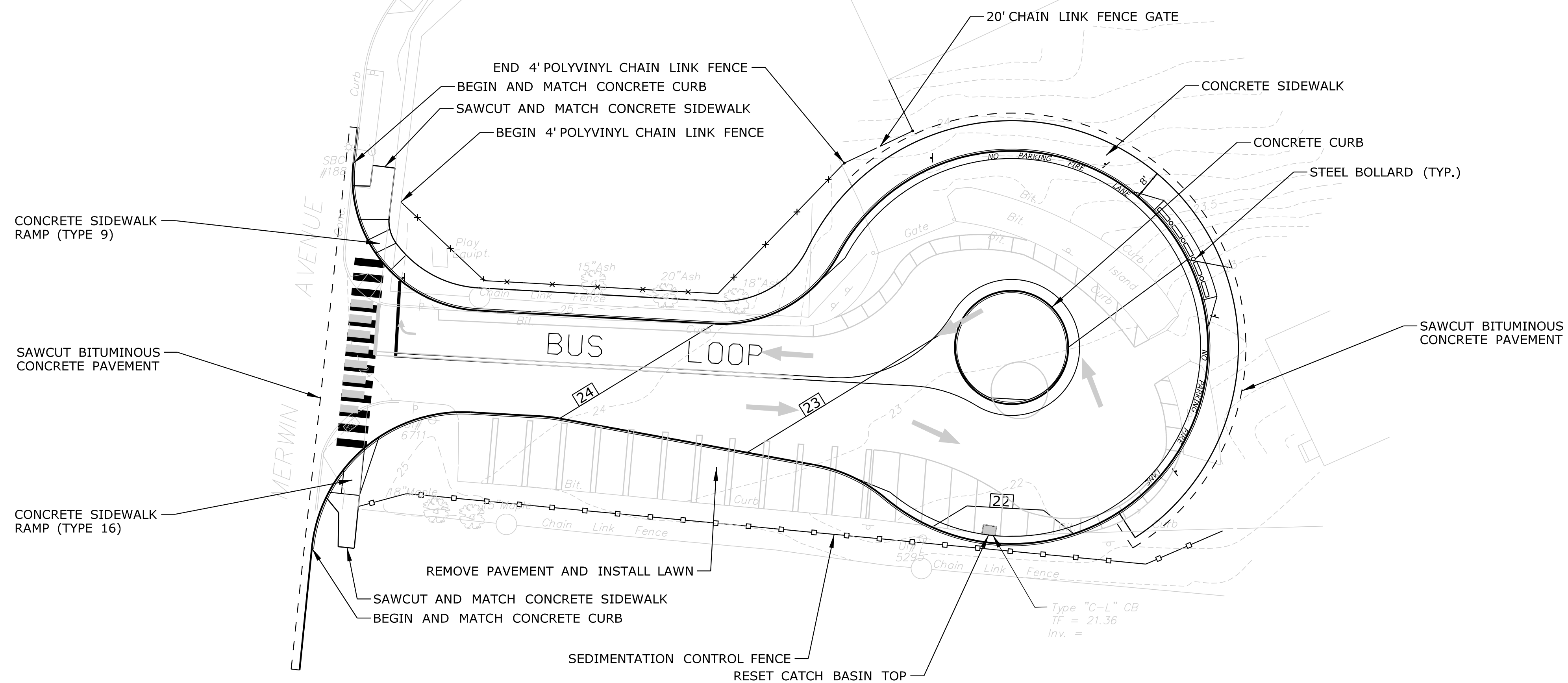
PROJECT NO.	19025
DRAWING NO.	PLN-01
SHEET NO.	4



STREET LINE  
 PROPERTY LINE  
 BITUMINOUS CONC. CURB  
 MONUMENT  
 CATCH BASIN  
 WATER VALVE  
 GAS VALVE  
 MANHOLE  
 SIGN POST  
 FENCE  
 SILT FENCE  
 CHAIN LINK FENCE  
 SILT SACK  
 BUILDING  
 CONTOUR (5' INTERVAL)  
 CONTOUR (1' INTERVAL)  
 SANITARY SEWER  
 STORM SEWER  
 WATER MAIN  
 GAS MAIN

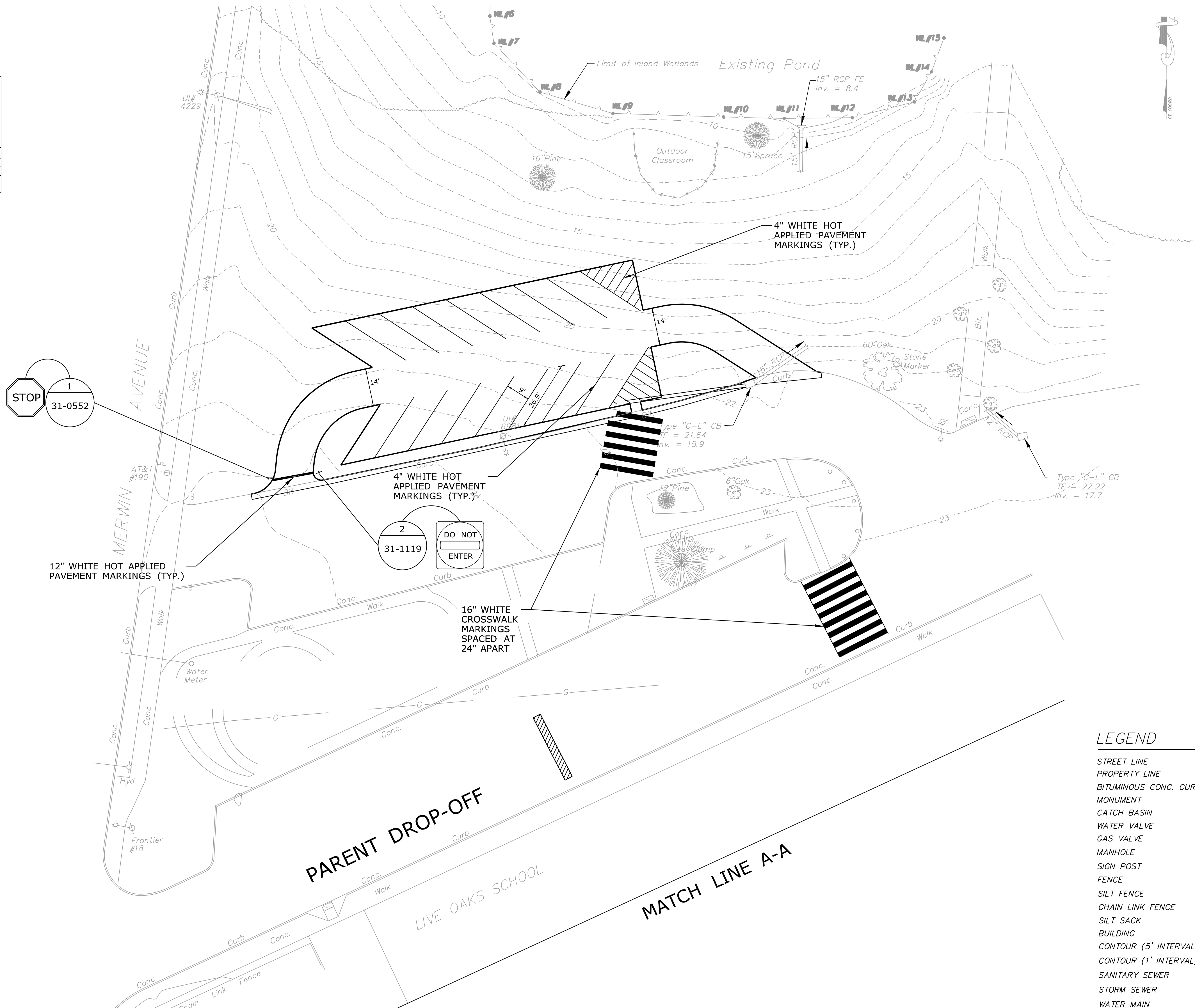
MATCH LINE A-A

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[illegible]



R1-1									
LEGEND - WHITE BACKGROUND - RED CIRCLE - RED									
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.85	18	31-0552	1	.080	6.25	30x30	31-1119	1	.080
5.19	30	31-0552	1	.080	9.00	36x36	31-1120	2	.080
7.98	36	31-0553	1	.080	16.00	48x48	31-1121	2	.100
13.3	48	31-0557	2	.100					
R7-1									
LEGEND - RED BACKGROUND - WHITE CIRCLE - RED									
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.					
1.50	12x18	31-0630	1	.080					



LEGEND	
STREET LINE	---
PROPERTY LINE	---
BITUMINOUS CONC. CURB	---
MONUMENT	
CATCH BASIN	
WATER VALVE	
GAS VALVE	
MANHOLE	
SIGN POST	
FENCE	---#---#---#---
SILT FENCE	---[ ]---
CHAIN LINK FENCE	---[ ]---
SILT SACK	---
BUILDING	
CONTOUR (5' INTERVAL)	---50---
CONTOUR (1' INTERVAL)	---49---
SANITARY SEWER	---W---
STORM SEWER	---G---
WATER MAIN	---
GAS MAIN	---

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 5/14/2020

DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET

SCALE 1"=40'

Signature/Block:

DATE: 5/14/2020

PROJECT TITLE:

LIVE OAKS ELEMENTARY SCHOOL  
PARKING LOT IMPROVEMENTS

TOWN:

MILFORD

DRAWING TITLE:

SIGNING AND PAVEMENT  
MARKING PLAN

PROJECT NO.

19025

DRAWING NO.

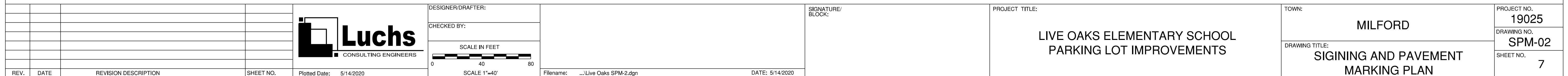
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SHEET NO.

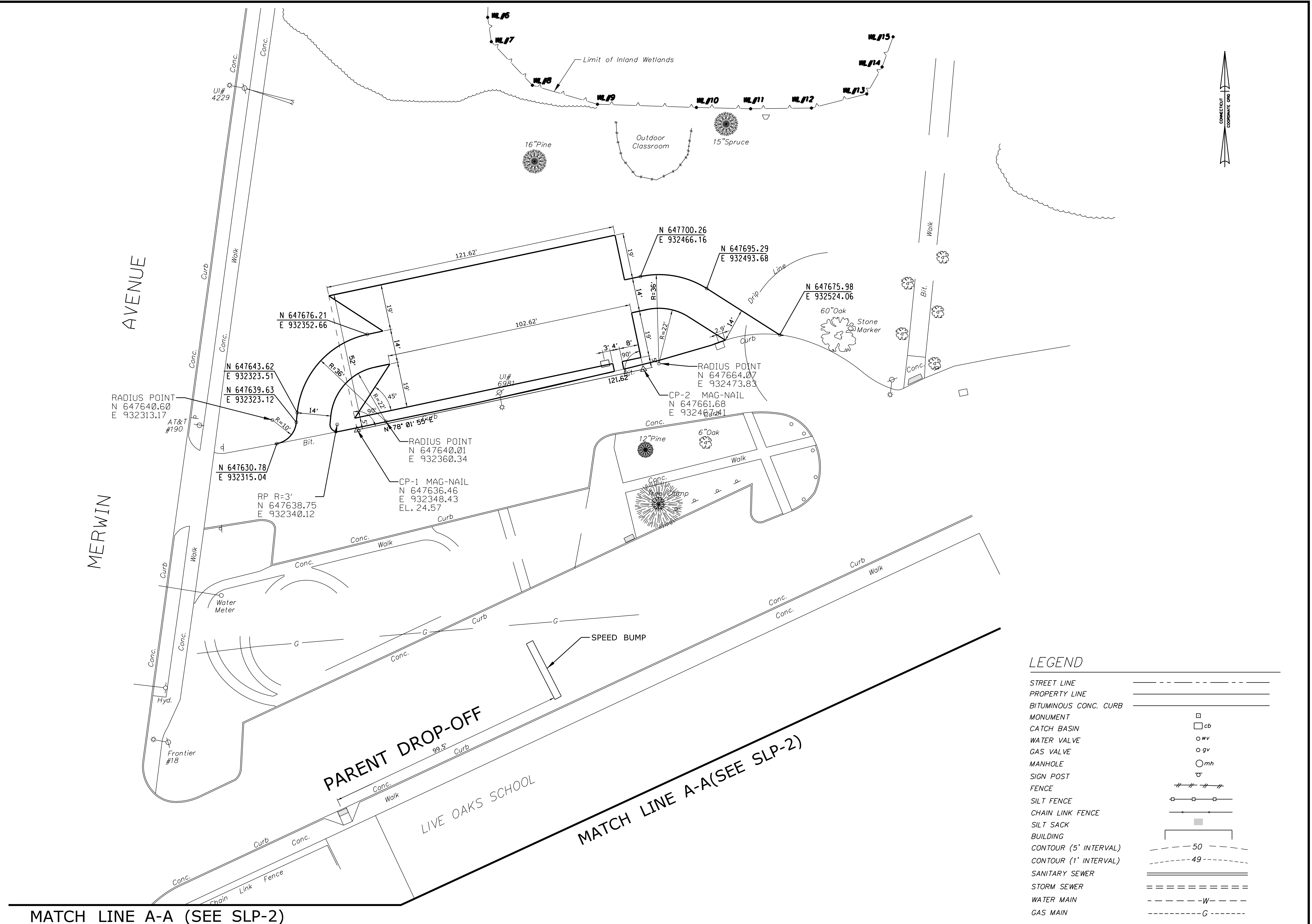
6



STREET LINE  
PROPERTY LINE  
BITUMINOUS CONC. CURB  
MONUMENT  
CATCH BASIN  
WATER VALVE  
GAS VALVE  
MANHOLE  
SIGN POST  
FENCE  
SILT FENCE  
CHAIN LINK FENCE  
SILT SACK  
BUILDING  
CONTOUR (5' INTERVAL)  
CONTOUR (1' INTERVAL)  
SANITARY SEWER  
STORM SEWER  
WATER MAIN  
GAS MAIN





[illegible]



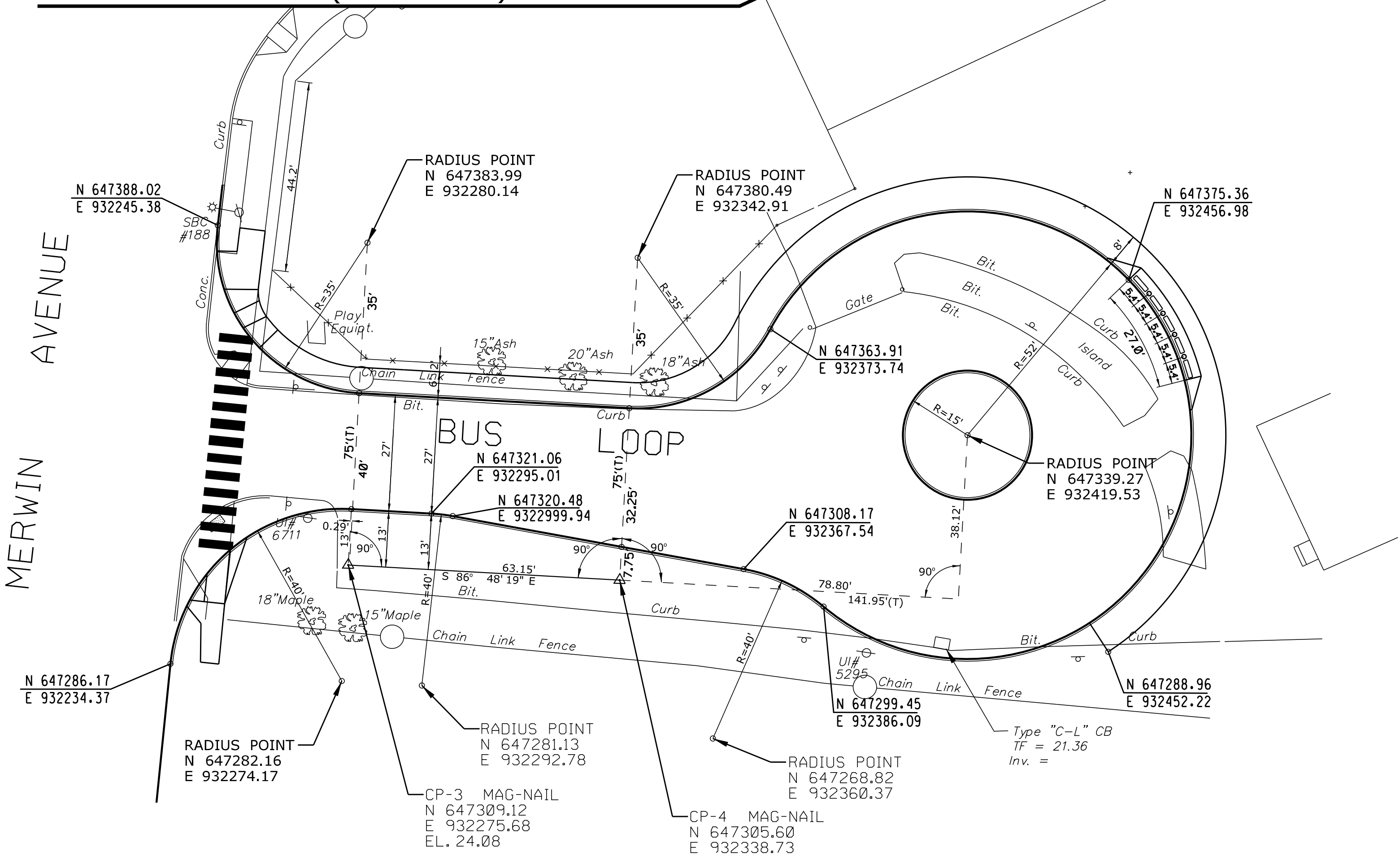
LEGEND

STREET LINE	
PROPERTY LINE	
BITUMINOUS CONC. CURB	
MONUMENT	
CATCH BASIN	
WATER VALVE	
GAS VALVE	
MANHOLE	
SIGN POST	
FENCE	
SILT FENCE	
CHAIN LINK FENCE	
SILT SACK	
BUILDING	
CONTOUR (5' INTERVAL)	
CONTOUR (1' INTERVAL)	
SANITARY SEWER	
STORM SEWER	
WATER MAIN	
GAS MAIN	

LIVE OAKS  
ELEMENTARY SCHOOL

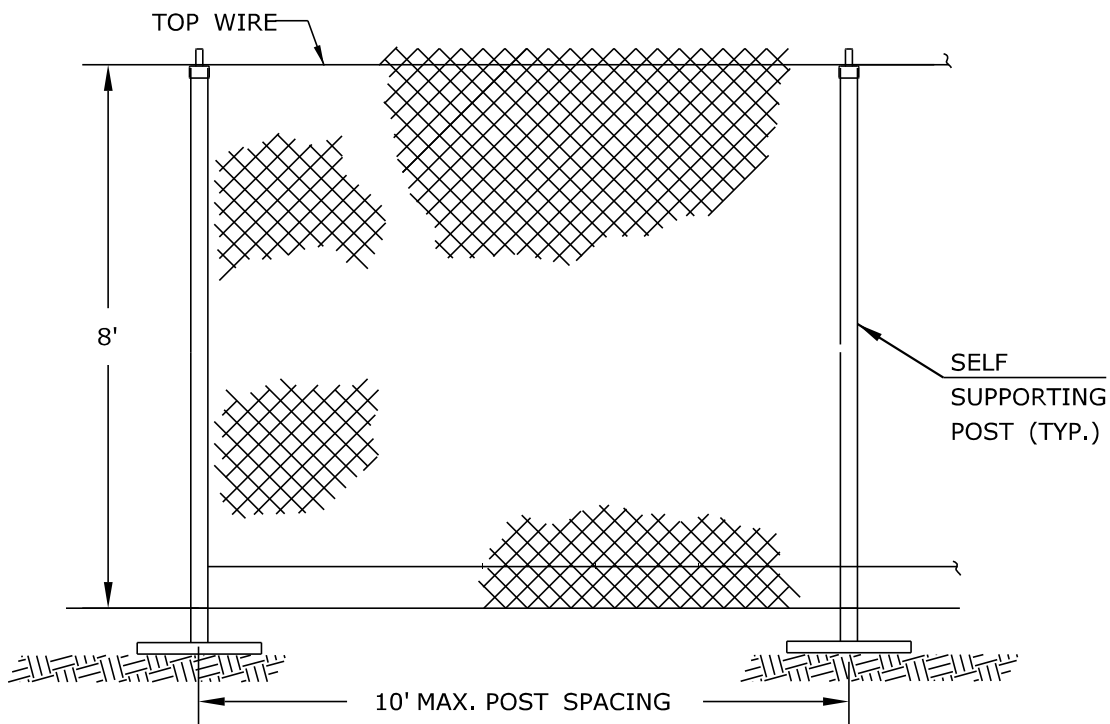
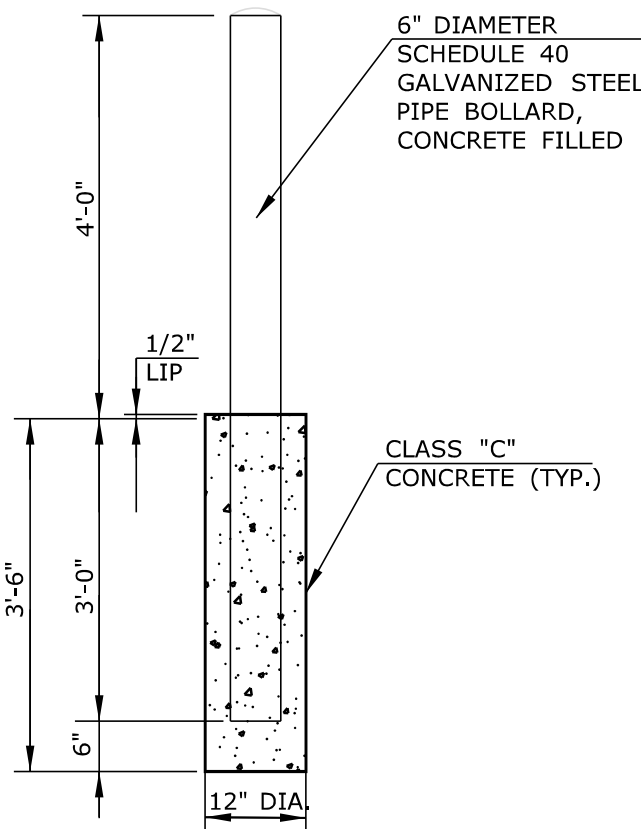
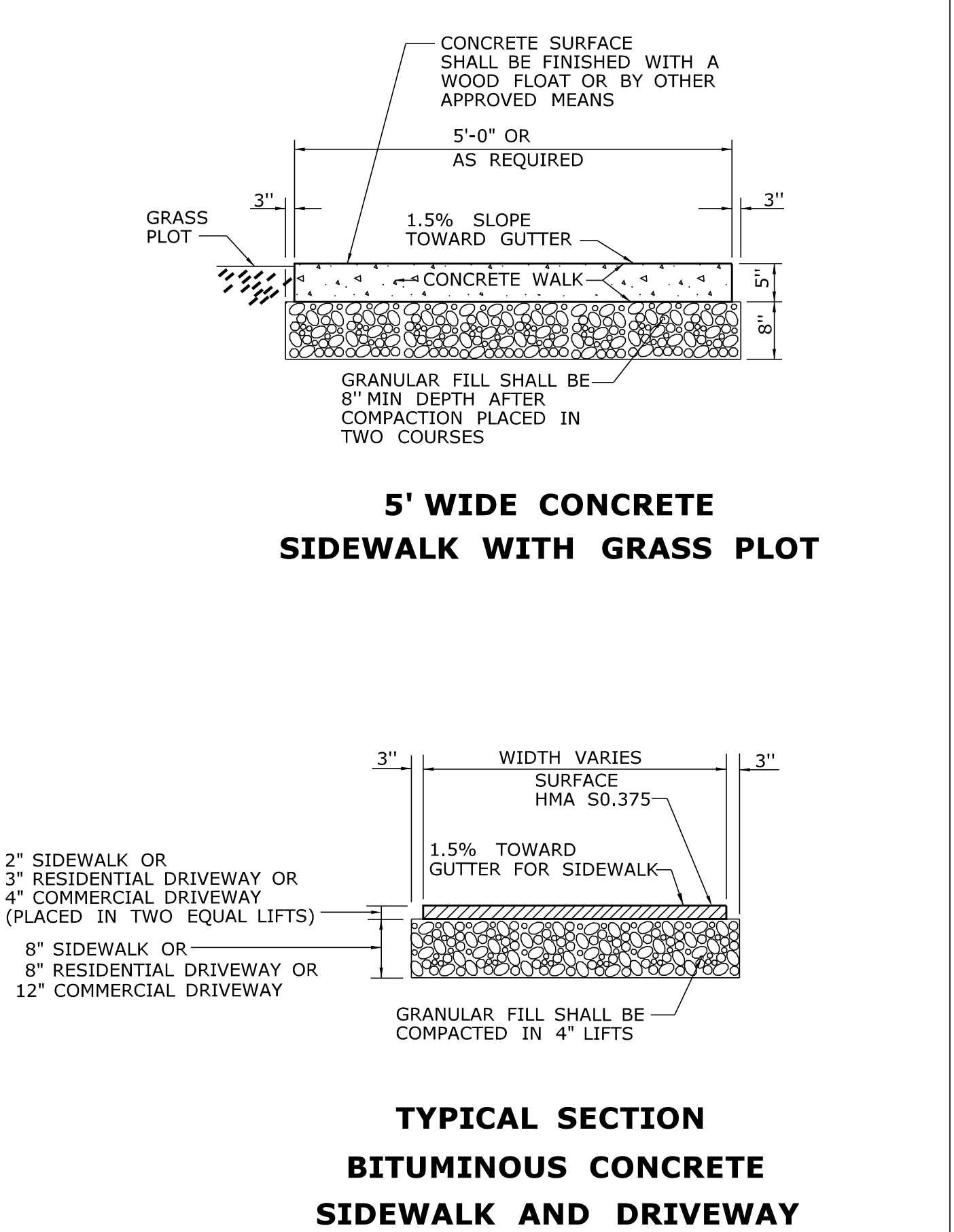
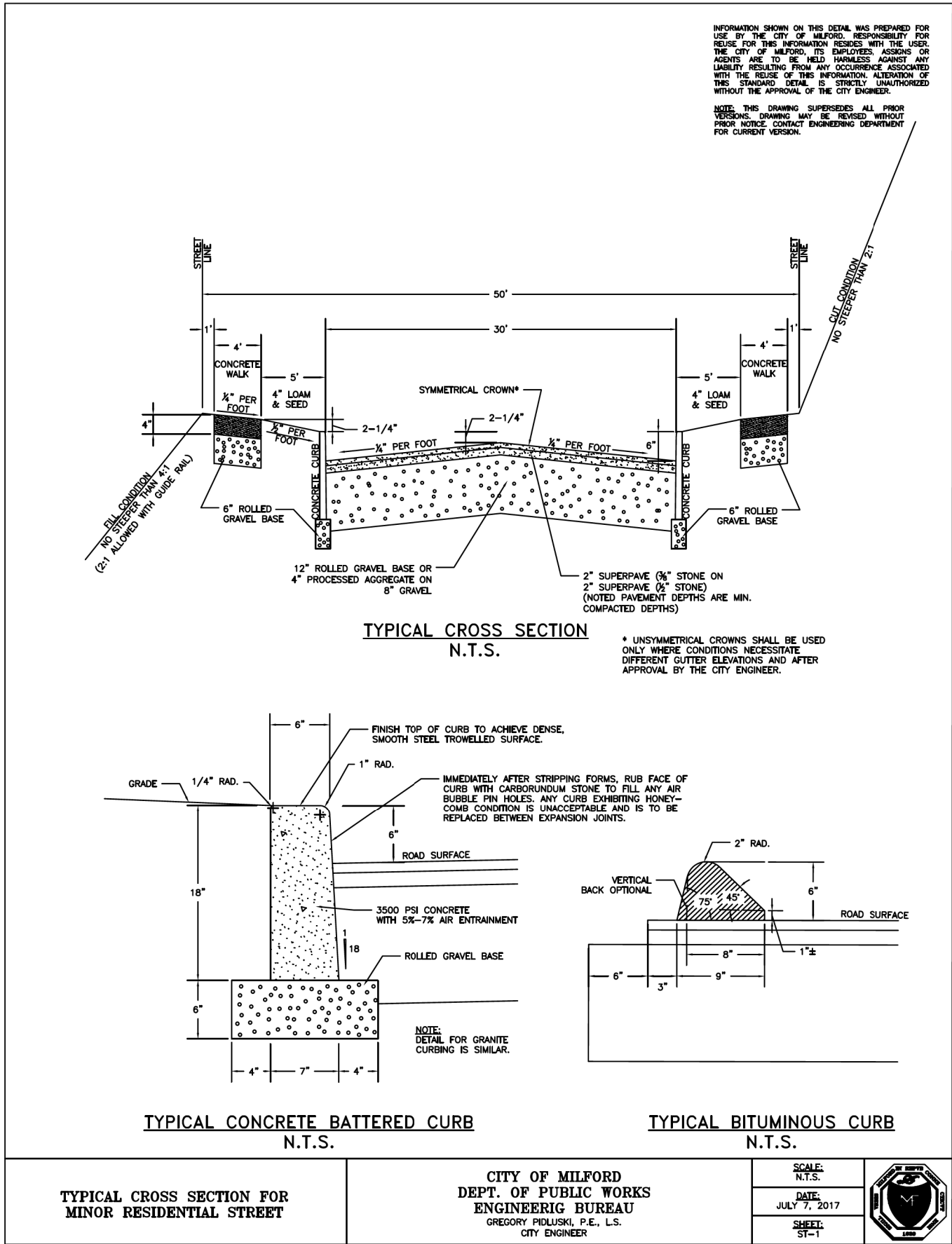
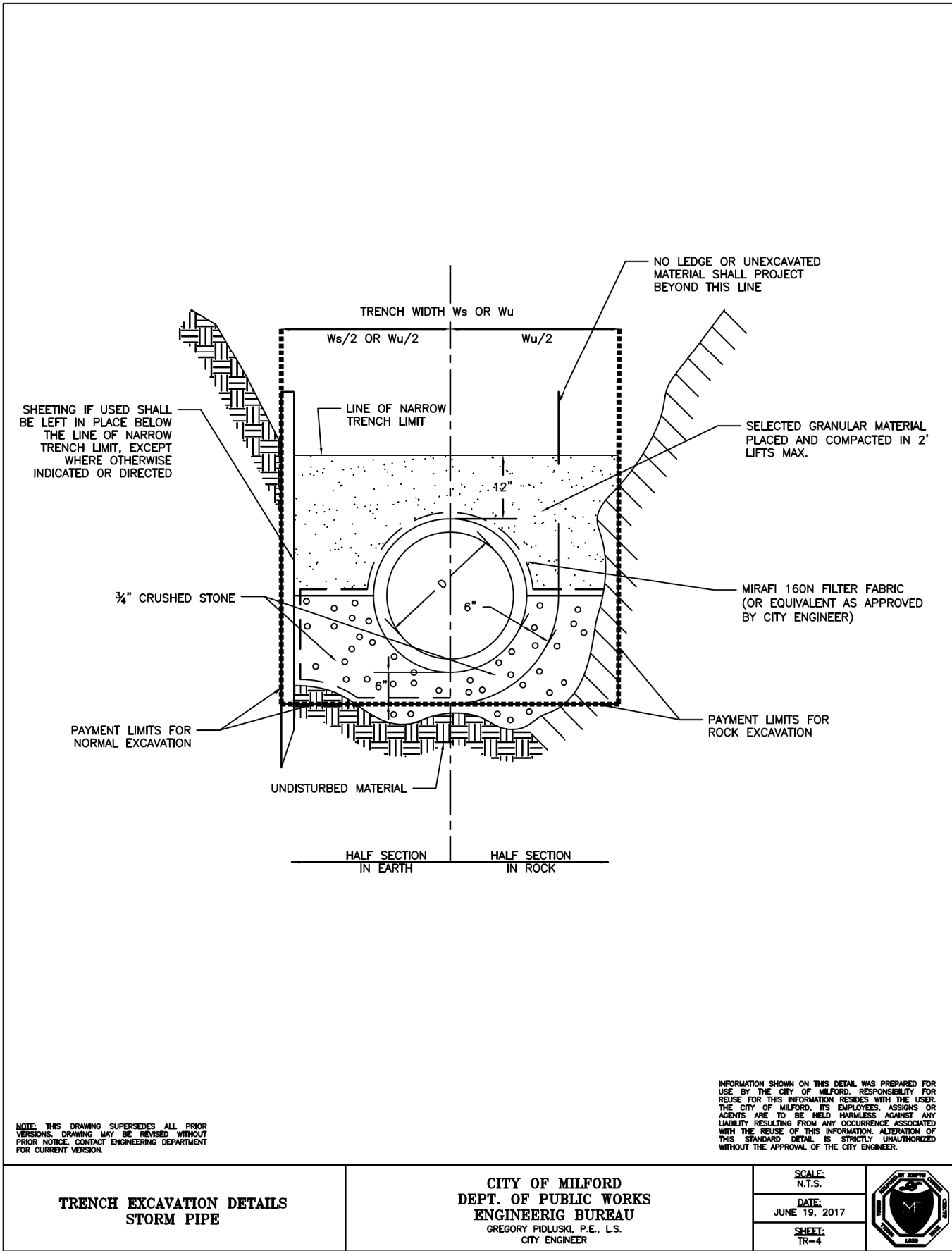
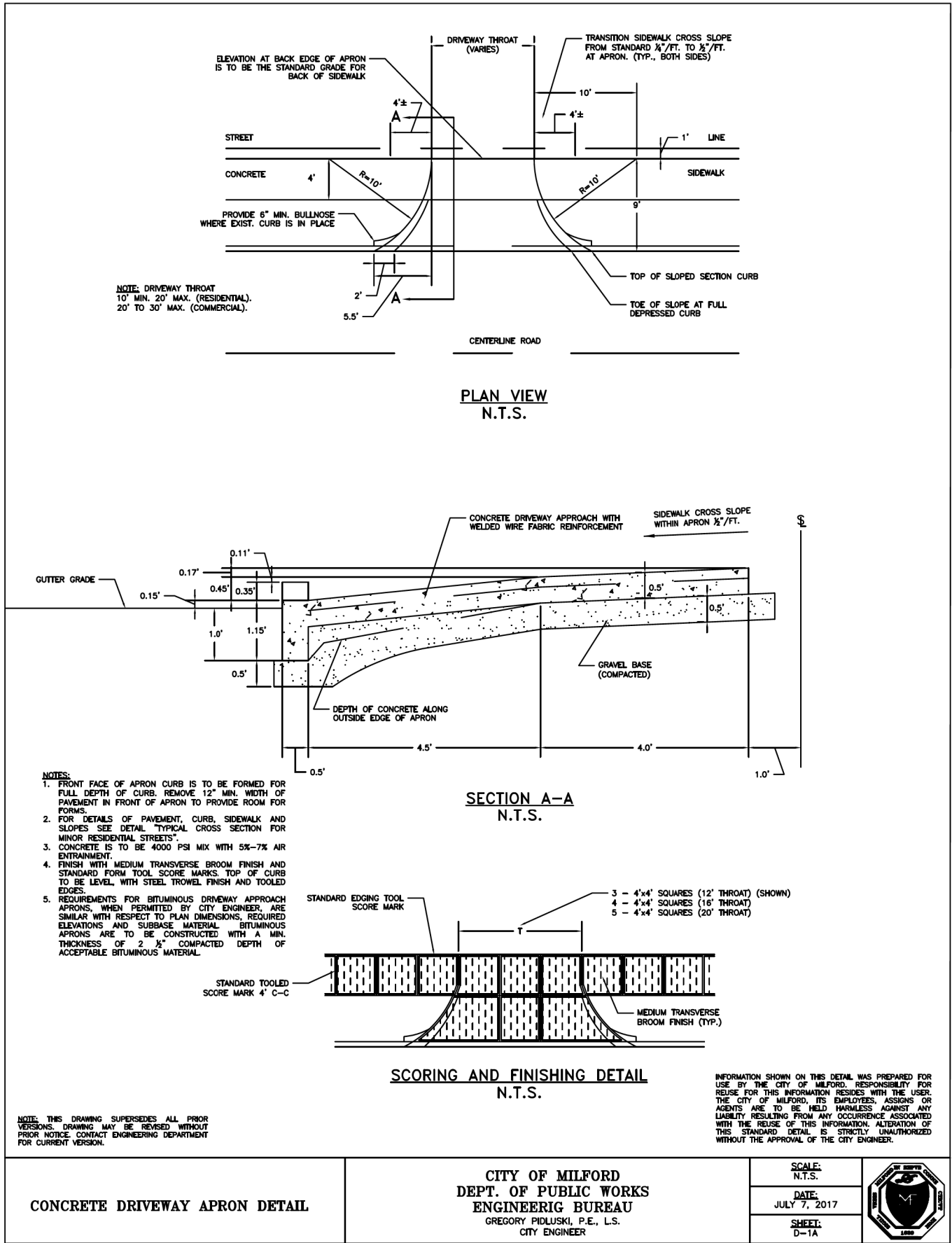
MATCH LINE A-A (SEE SLP-1)

MATCH LINE A-A (SEE SLP-1)



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER:
CHECKED BY:
SCALE IN FEET
0 40 80
SCALE 1"=40'

Filename: ...\\Details\\Live Oaks MSD-01.dgn

DATE: 5/14/2020

SIGNATURE/  
BLOCK:

PROJECT TITLE:

LIVE OAKS ELEMENTARY SCHOOL  
PARKING LOT IMPROVEMENTS

TOWN:

MILFORD

DRAWING TITLE:

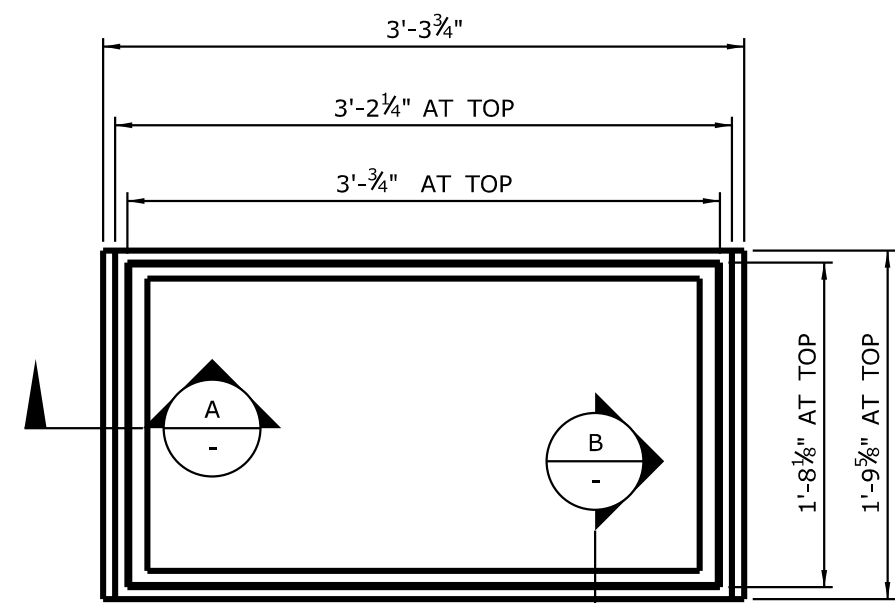
MISCELLANEOUS DETAILS

PROJECT NO.  
19025

DRAWING NO.  
MDS-01

SHEET NO.  
10

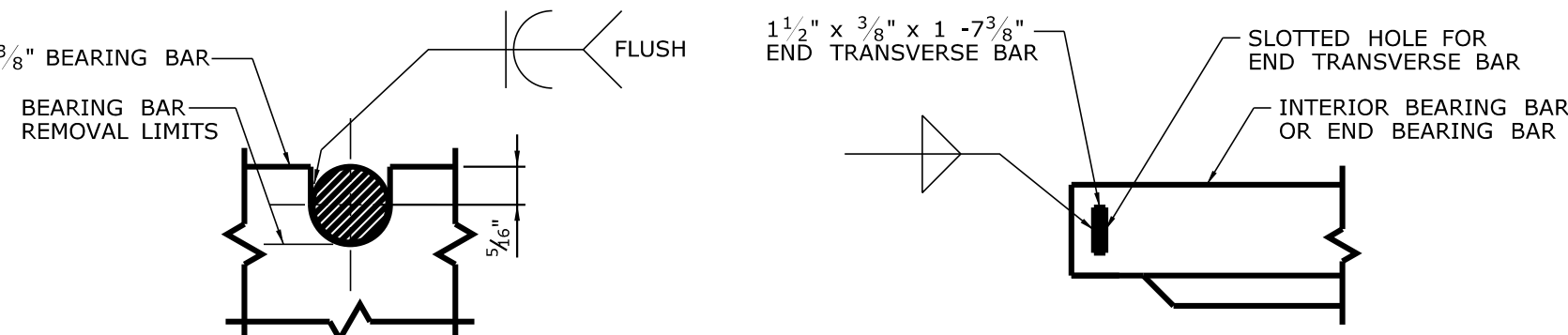




PLAN

GENERAL NOTES:

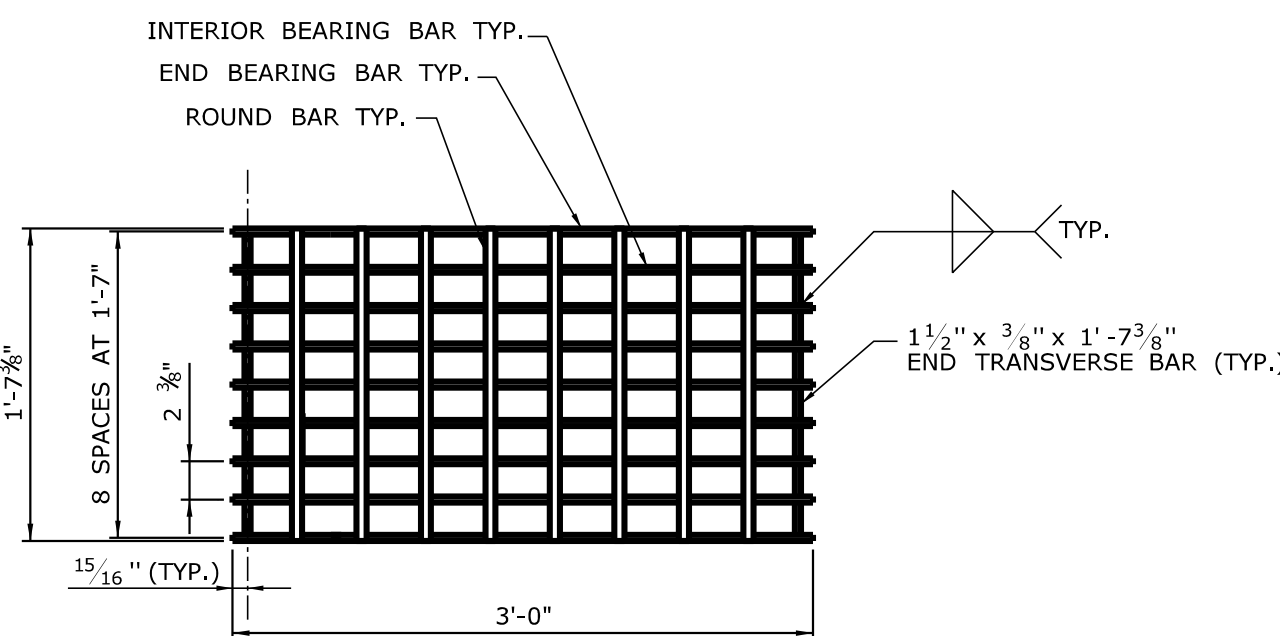
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. DO NOT GALVANIZE CAST IRON FRAMES.
5. DIMENSIONAL TOLERANCES SHALL BE  $\pm \frac{1}{16}$  INCH.
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



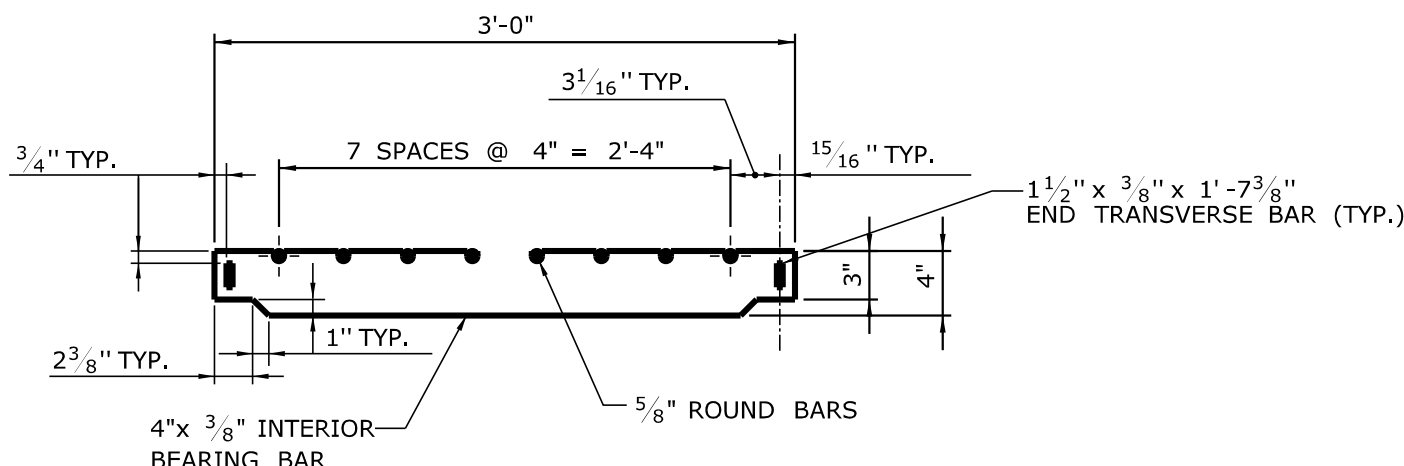
NOTE:  
 $\frac{5}{8}$ " DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

ROUND BAR ATTACHMENT  
CATCH BASIN GRATE TYPE A

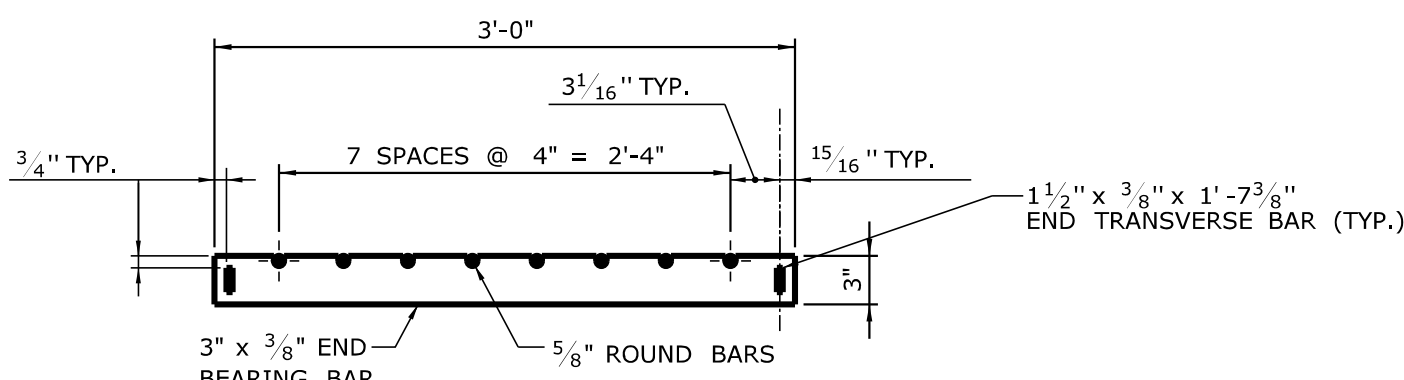
END TRANSVERSE BAR ATTACHMENT  
CATCH BASIN GRATE TYPE A AND B



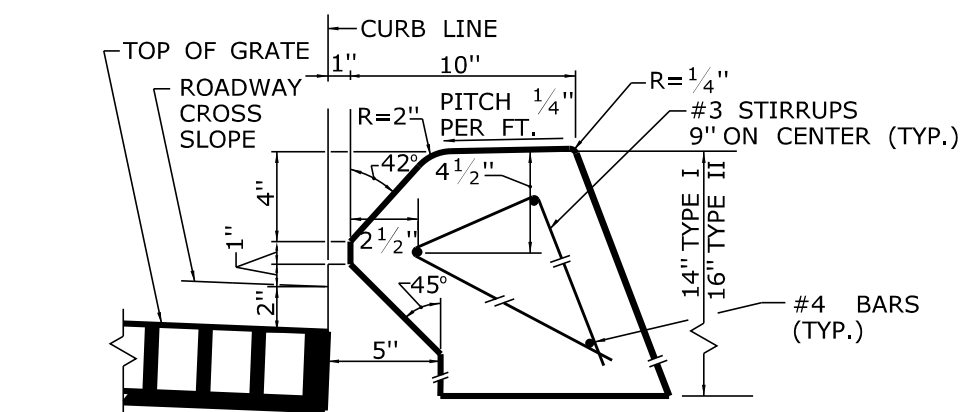
PLAN



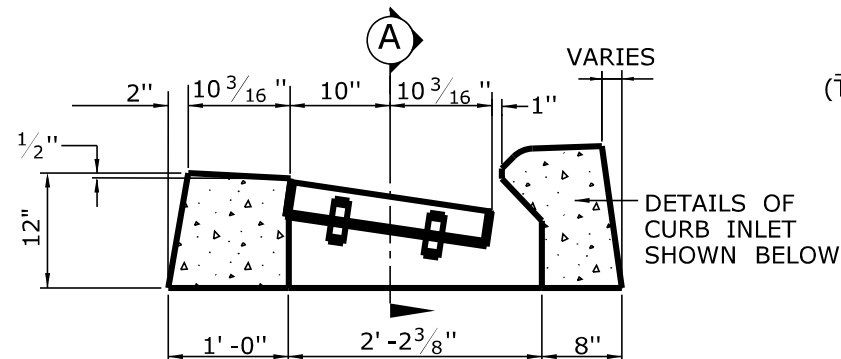
ELEVATION- INTERIOR BEARING BAR



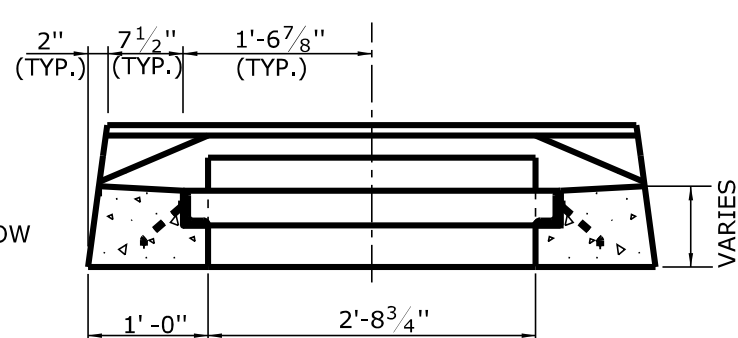
ELEVATION- END BEARING BAR  
CATCH BASIN GRATE TYPE A



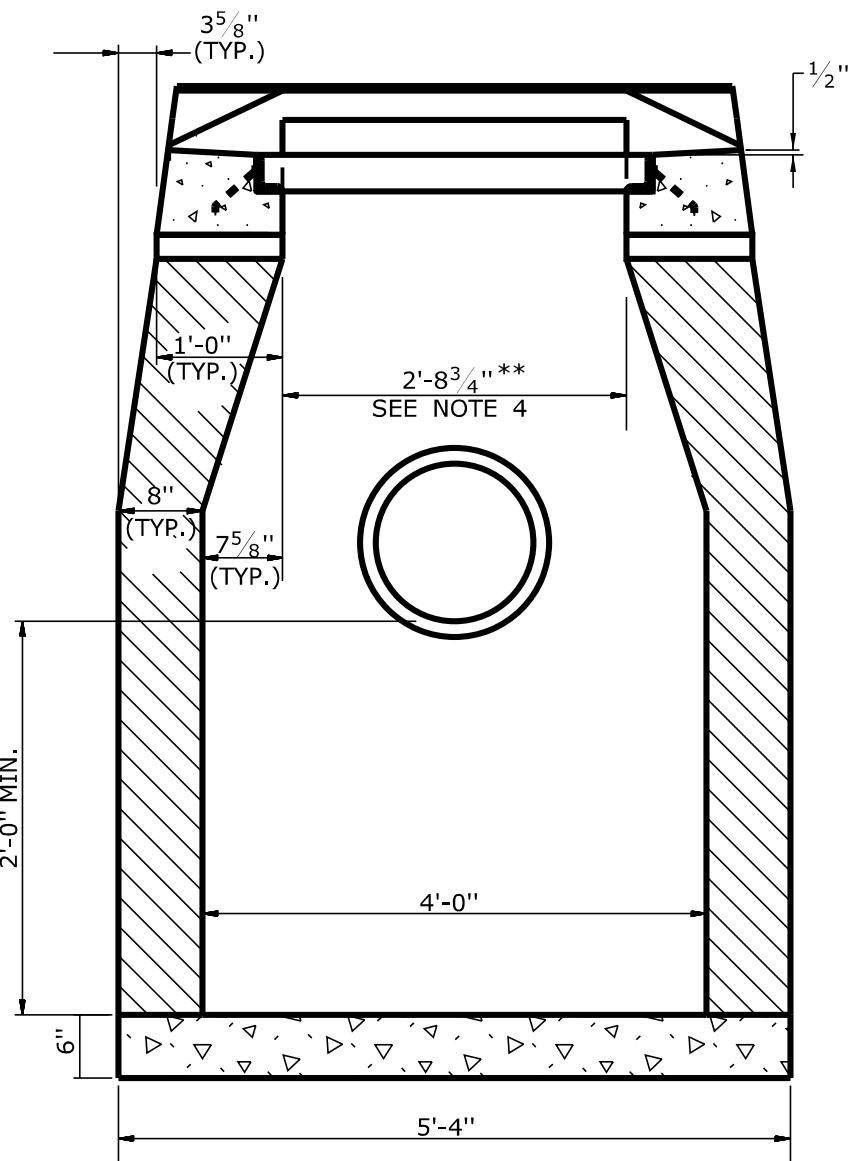
INLET WITH 6" BITUMINOUS  
CONCRETE LIP CURBING FOR TYPE "C" CB  
DOUBLE GRATE TYPE I & II



CROSS SECTION  
TYPE "C" CATCH BASIN TOP

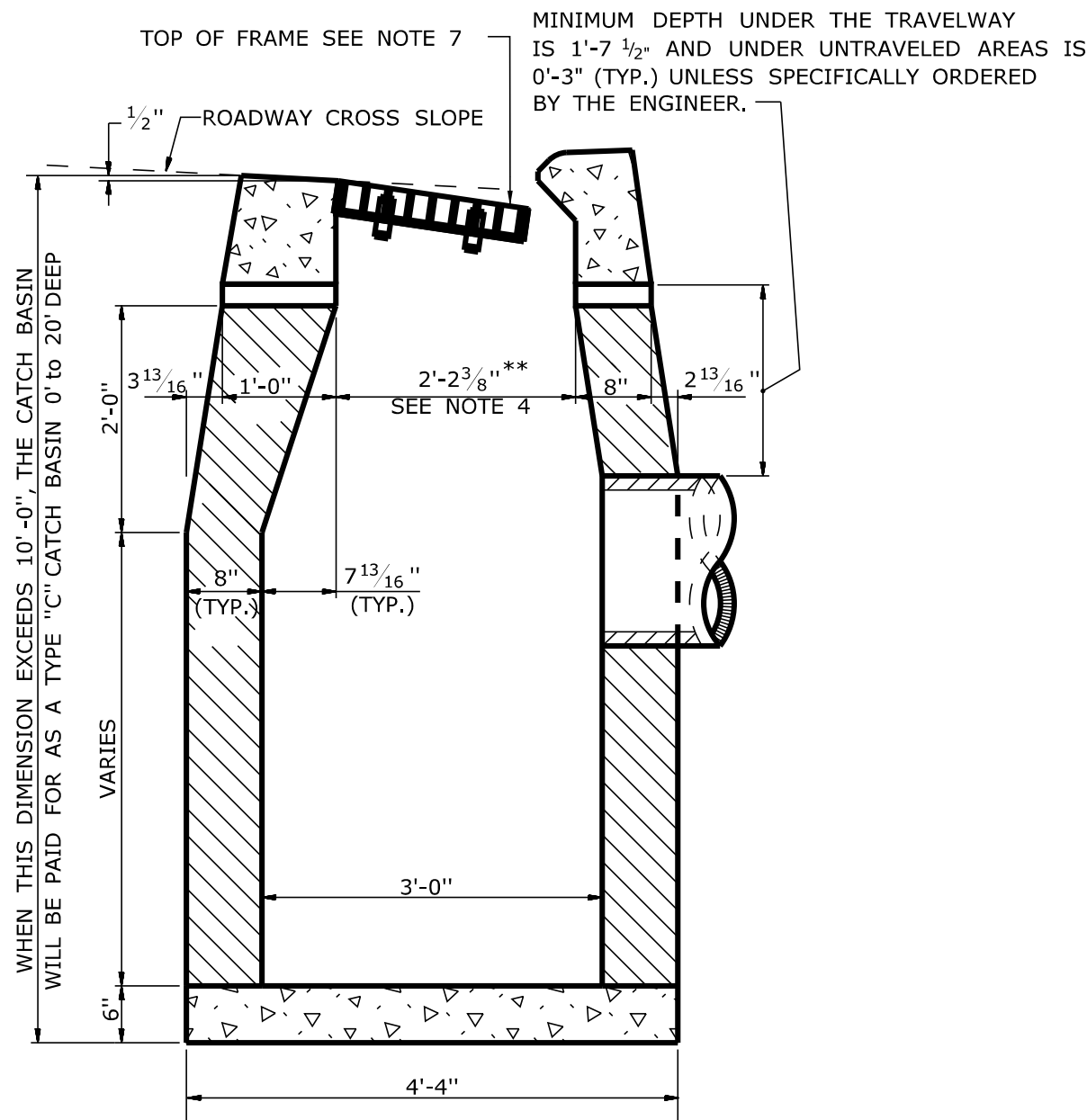


SECTION A



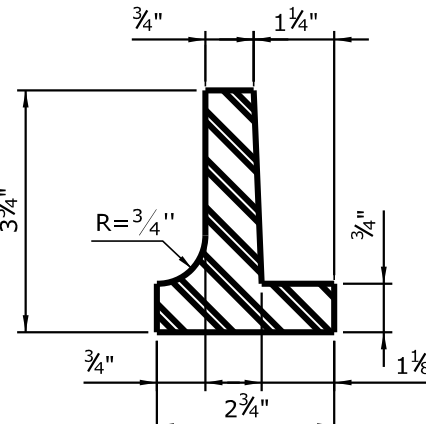
SECTION A

TYPE "C" & "C-L" CATCH BASIN  
(TYPE "C" TOP SHOWN)

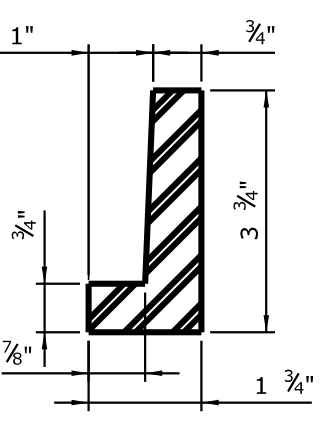


SECTION B

TYPE "C" CATCH BASIN



SECTION A

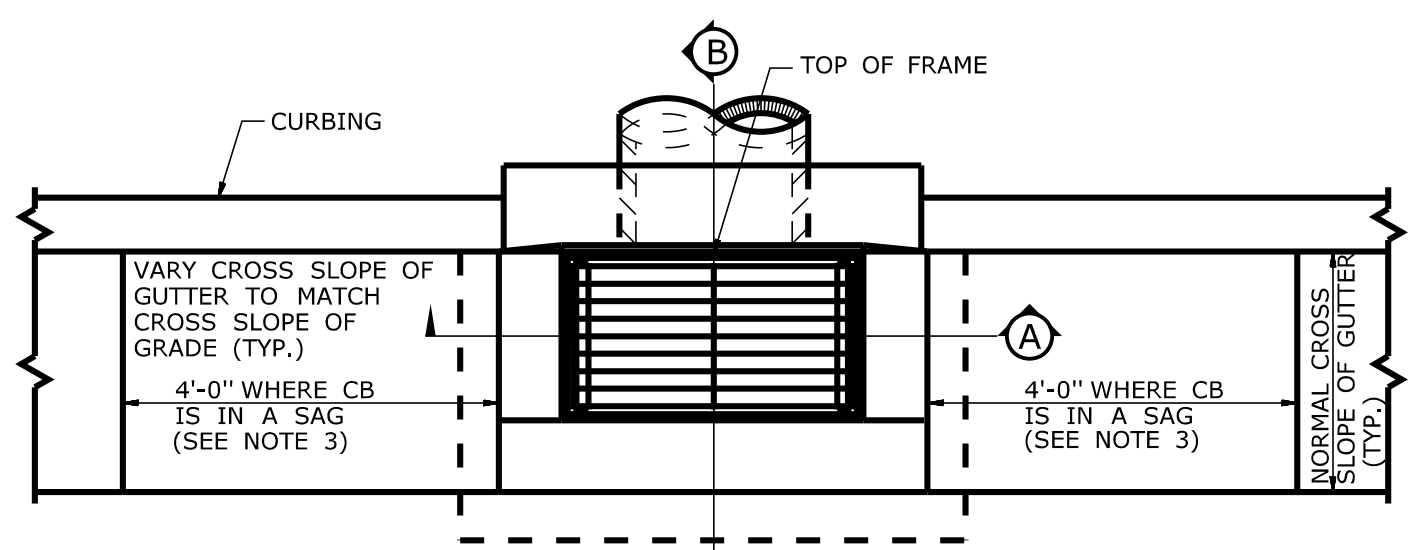


SECTION B

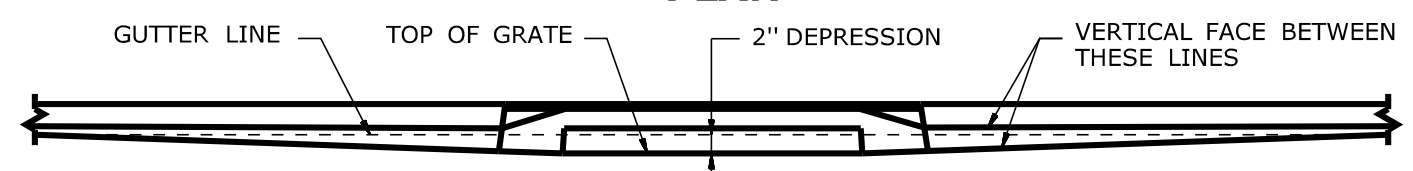
CAST IRON FRAME ALTERNATE

GENERAL NOTES:

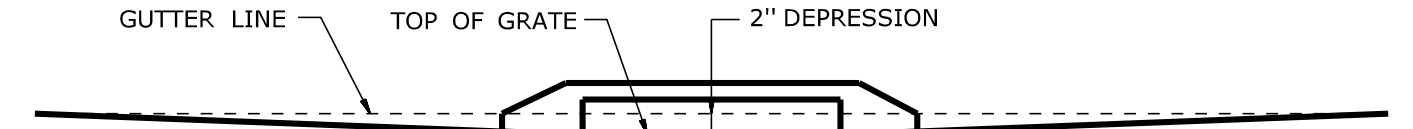
1. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-07.
2. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS FOR THE CATCH BASIN OPENINGS SHOWN IN THE SECTION VIEWS \*\*.
5. WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
6. SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLANS.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.



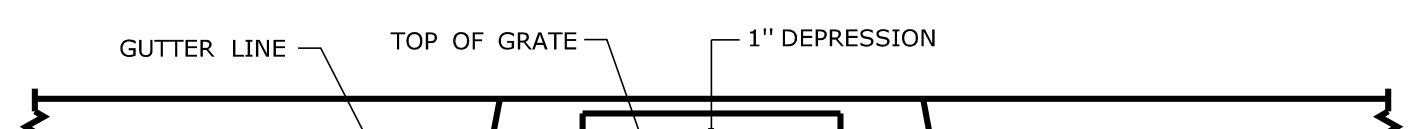
PLAN



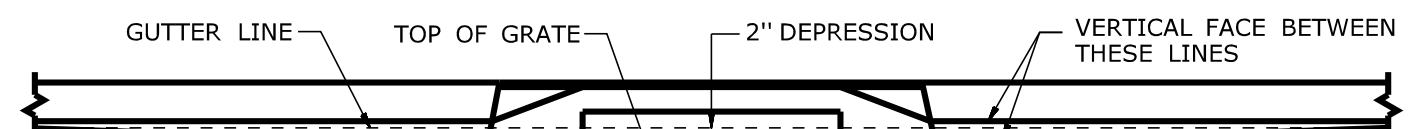
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK  
CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



CATCH BASINS WHERE NO CURBING  
OF ANY TYPE EXISTS OR IS PROPOSED



CATCH BASINS IN A LINE WITH 6"  
CONCRETE CURBING OR 6" STONE CURBING



CATCH BASINS IN A LINE WITH 6" BITUMINOUS  
CONCRETE LIP CURBING (MACHINE FORMED)

DETAILS OF DEPRESSED GUTTER STRIP  
FOR TYPE "C" CATCH BASIN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



Plotted Date: 5/14/2020

DESIGNER/DRAFTER:
CHECKED BY:
SCALE IN FEET
0 40 80
SCALE 1"=40'

Filename: ...\\Details\\Live Oaks MSD-02.dgn

DATE: 5/14/2020

SIGNATURE/  
BLOCK:

PROJECT TITLE:

LIVE OAKS ELEMENTARY SCHOOL  
PARKING LOT IMPROVEMENTS

TOWN:

MILFORD

DRAWING TITLE:

MISCELLANEOUS DETAILS

PROJECT NO.

19025

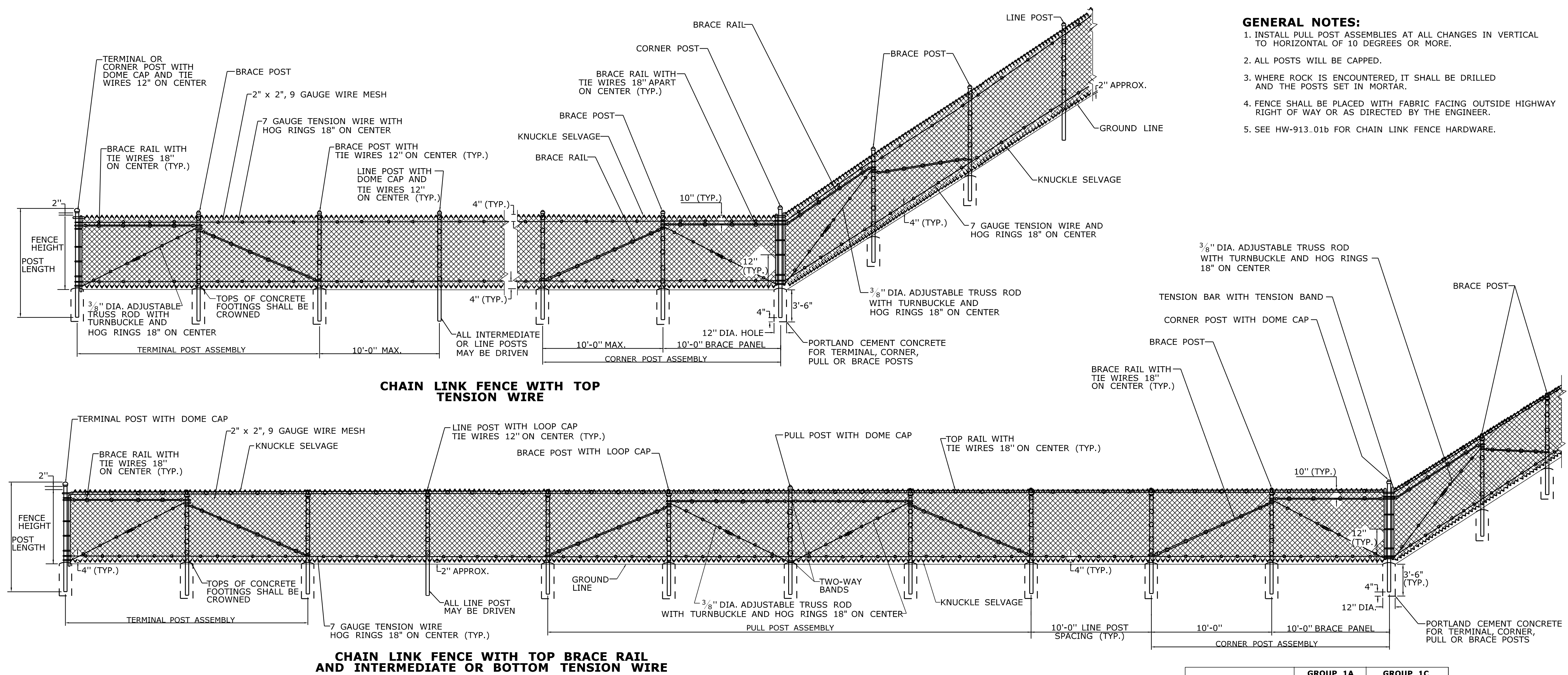
DRAWING NO.

MDS-02

SHEET NO.

11

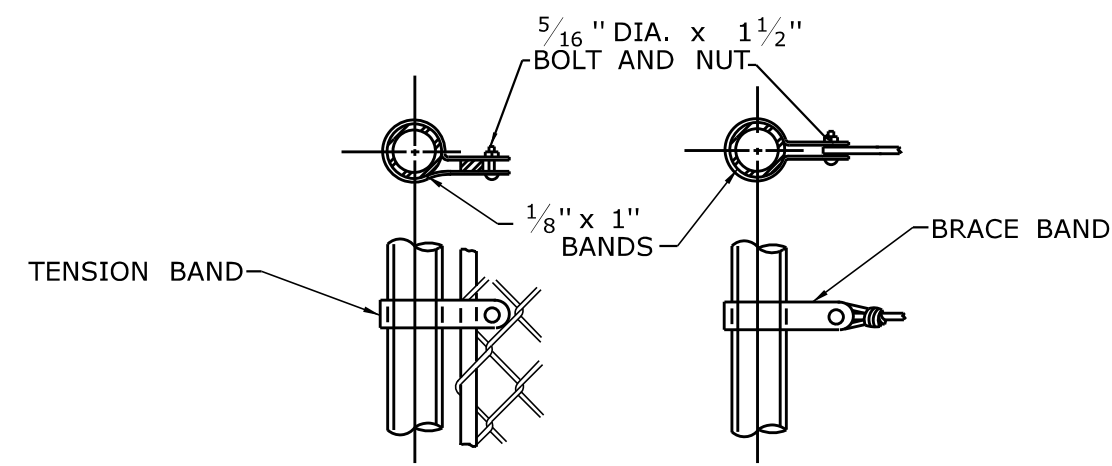




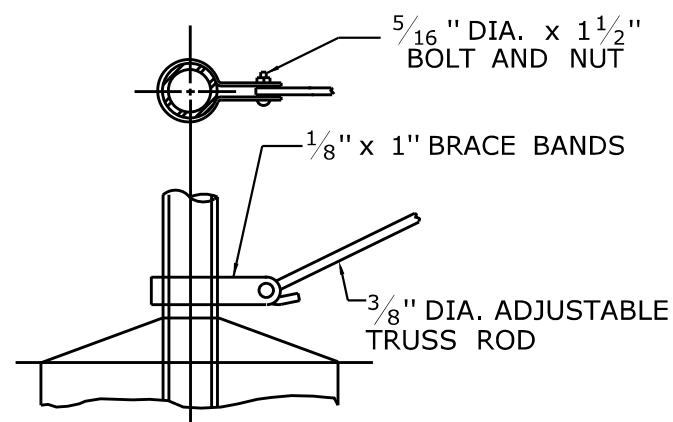
- GENERAL NOTES:**
1. INSTALL PULL POST ASSEMBLIES AT ALL CHANGES IN VERTICAL TO HORIZONTAL OF 10 DEGREES OR MORE.
  2. ALL POSTS WILL BE CAPPED.
  3. WHERE ROCK IS ENCOUNTERED, IT SHALL BE DRILLED AND THE POSTS SET IN MORTAR.
  4. FENCE SHALL BE PLACED WITH FABRIC FACING OUTSIDE HIGHWAY RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.
  5. SEE HW-913.01b FOR CHAIN LINK FENCE HARDWARE.

FENCE FABRIC HEIGHT	GROUP 1A	GROUP 1C
	ASTM F1083 SCH. 40 PIPE 50,000 PSI DIAMETER	ASTM F1043 ELEC. RESISTANCE WELDED PIPE 50,000 PSI DIAMETER
LINE OR INTERMEDIATE POST		
UP TO 5'-0"	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "
6'-0" TO 7'-0"	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>8</sub> "
8'-0" TO 9'-0"	2 <sup>7</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "
10'-0"	3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "
12'-0" OR HIGHER	4"	4"
TERMINAL, CORNER OR PULL POST		
UP TO 5'-0"	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>8</sub> "
6'-0" TO 7'-0"	2 <sup>7</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "
8'-0" TO 9'-0"	3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "
10'-0" OR HIGHER	4"	4"
TOP OR BRACE RAIL POSTS UP TO 6'-0"	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>8</sub> "
POSTS HIGHER THAN 6'-0"	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "

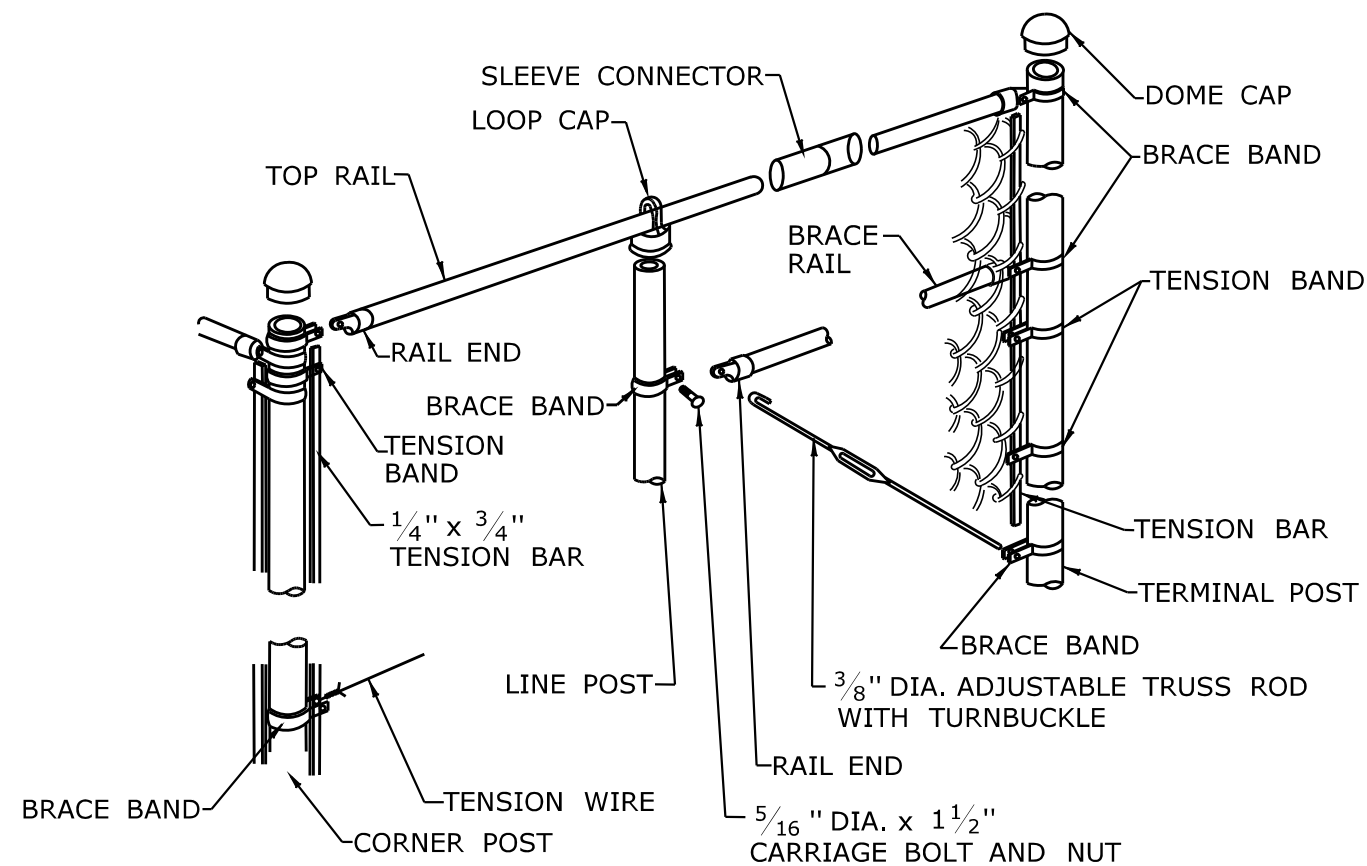




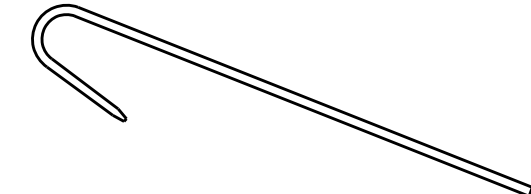
TENSION BAR      TENSION WIRE



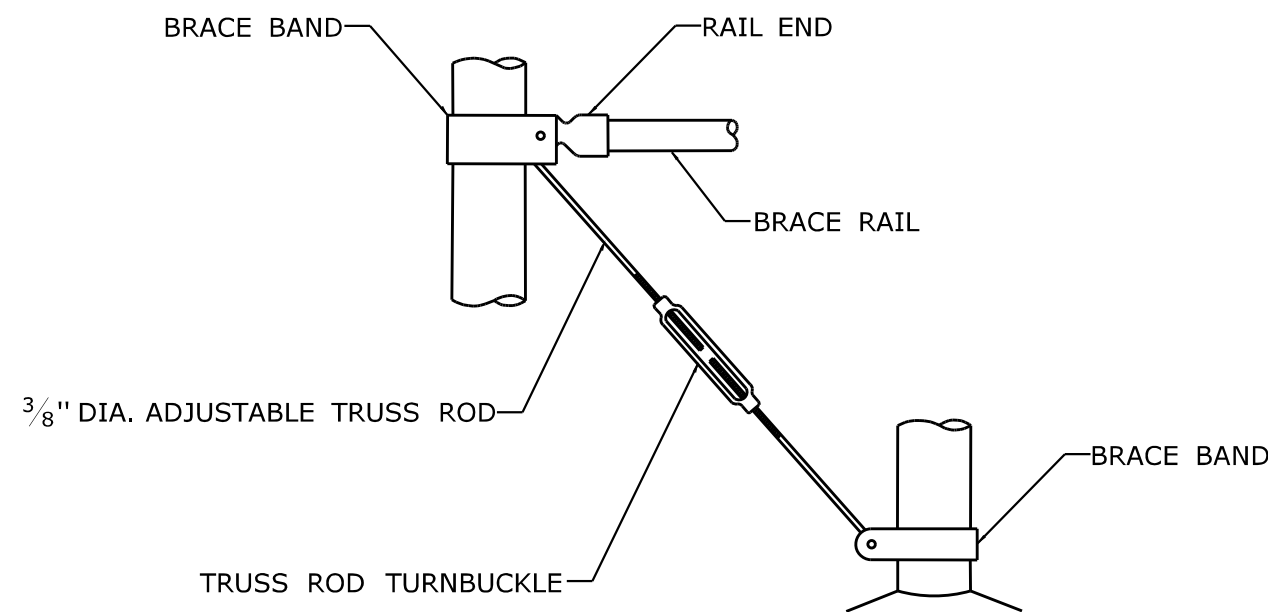
ADJUSTABLE TRUSS ROD



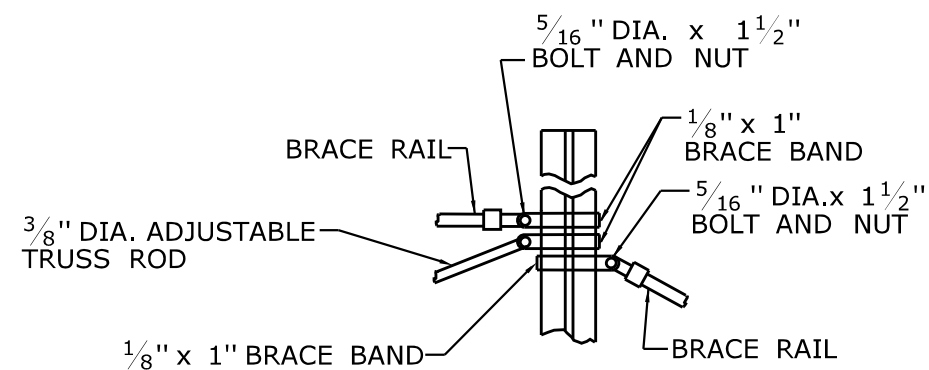
TOP RAIL / TRUSSED BRACE RAIL  
WITH BOTTOM TENSION WIRE



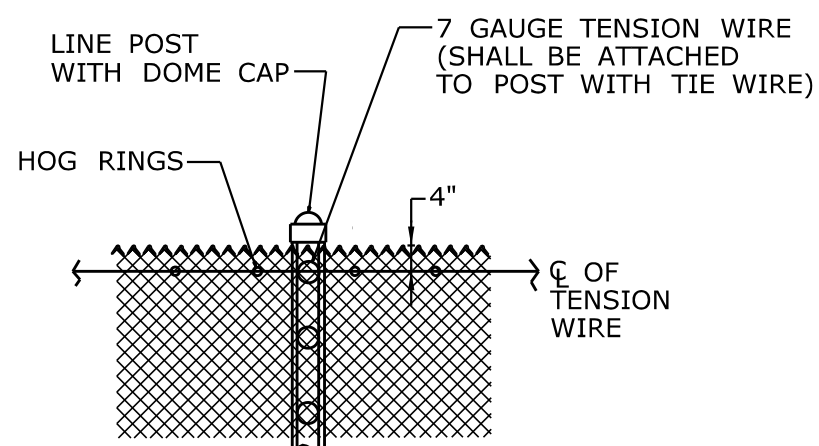
TIE WIRE



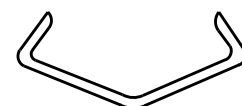
BRACE & TRUSS CONNECTIONS



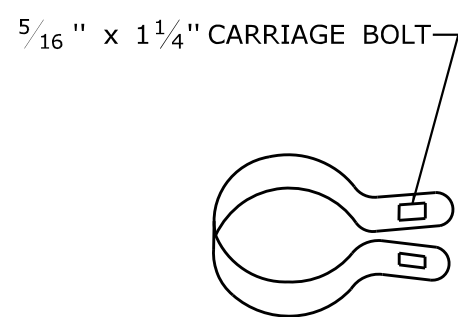
BRACE RAILS ATTACHMENT  
TO LINE POSTS



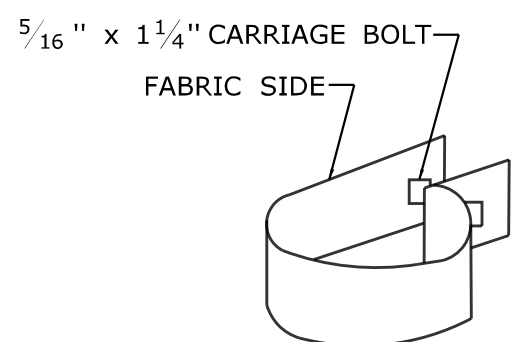
TENSION WIRE



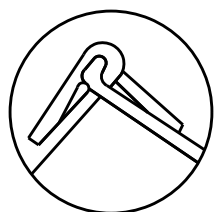
HOG RING



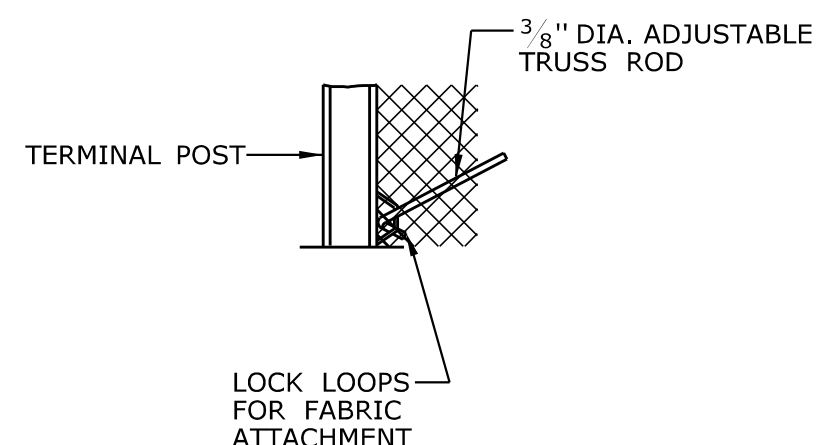
1/8" x 1" BRACE BAND



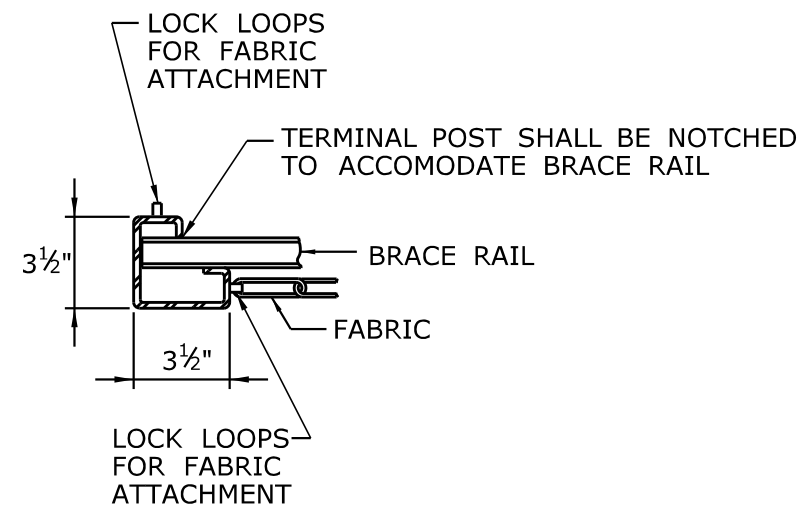
1/8" x 1" TENSION BAND



KNUCKLE SELVAGE

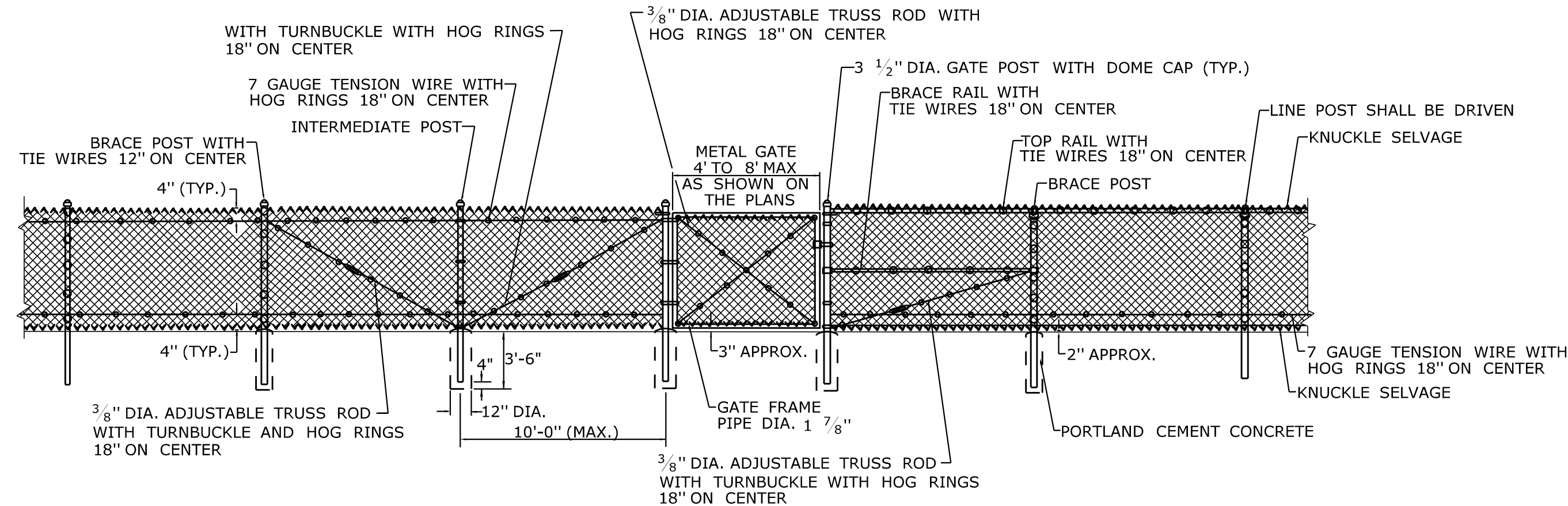


TRUSS ROD  
ATTACHMENT

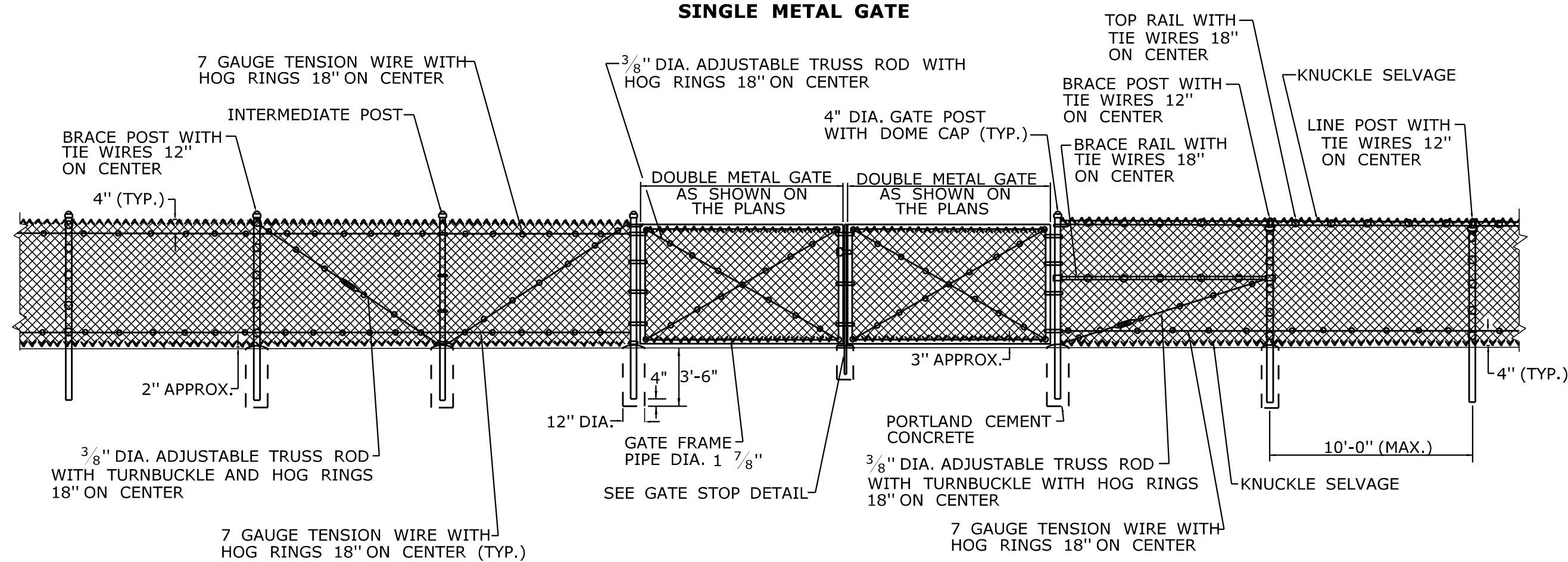


FABRIC AND BRACE  
RAIL ATTACHMENT

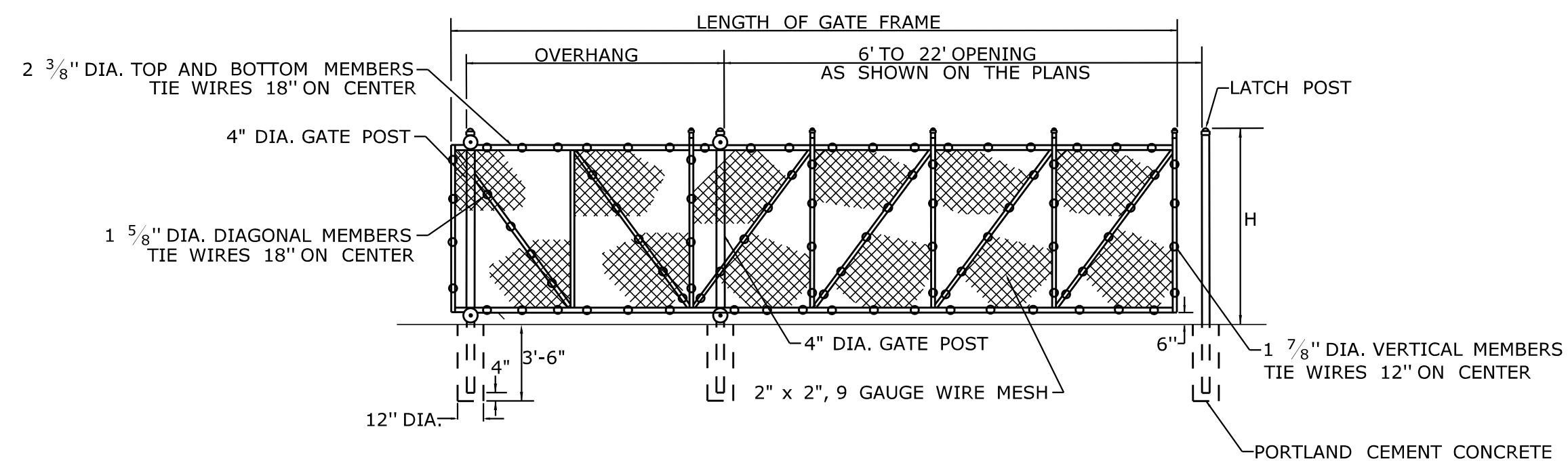
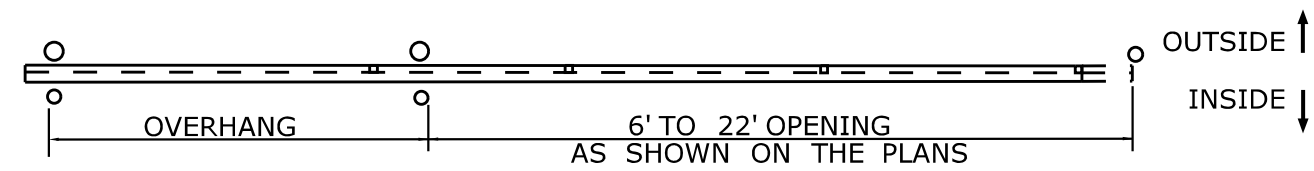




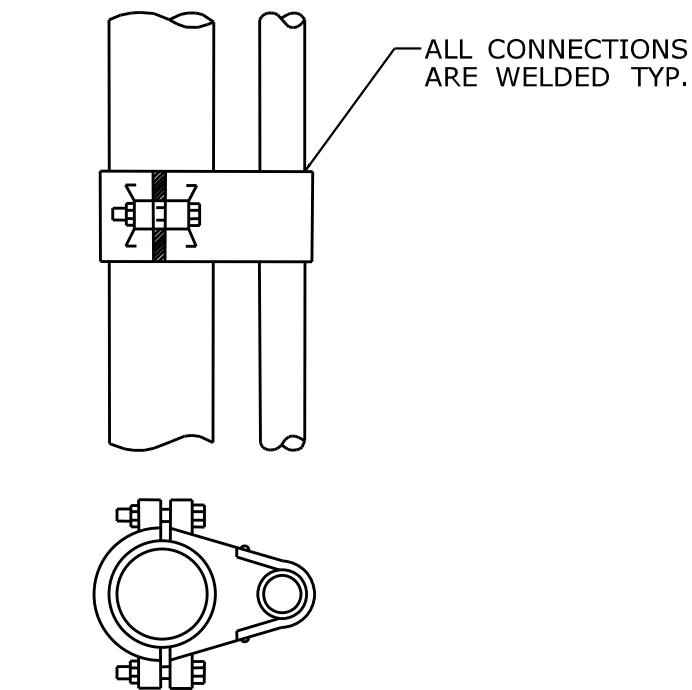
**SINGLE METAL GATE**



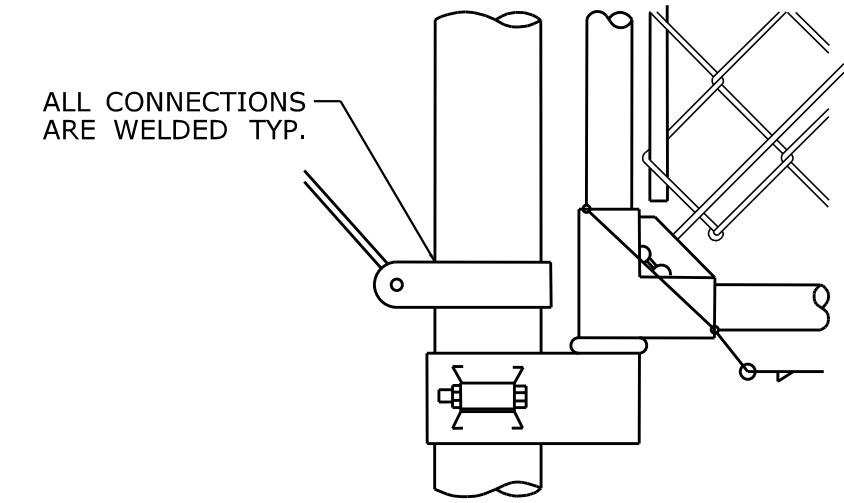
**DOUBLE METAL GATE**



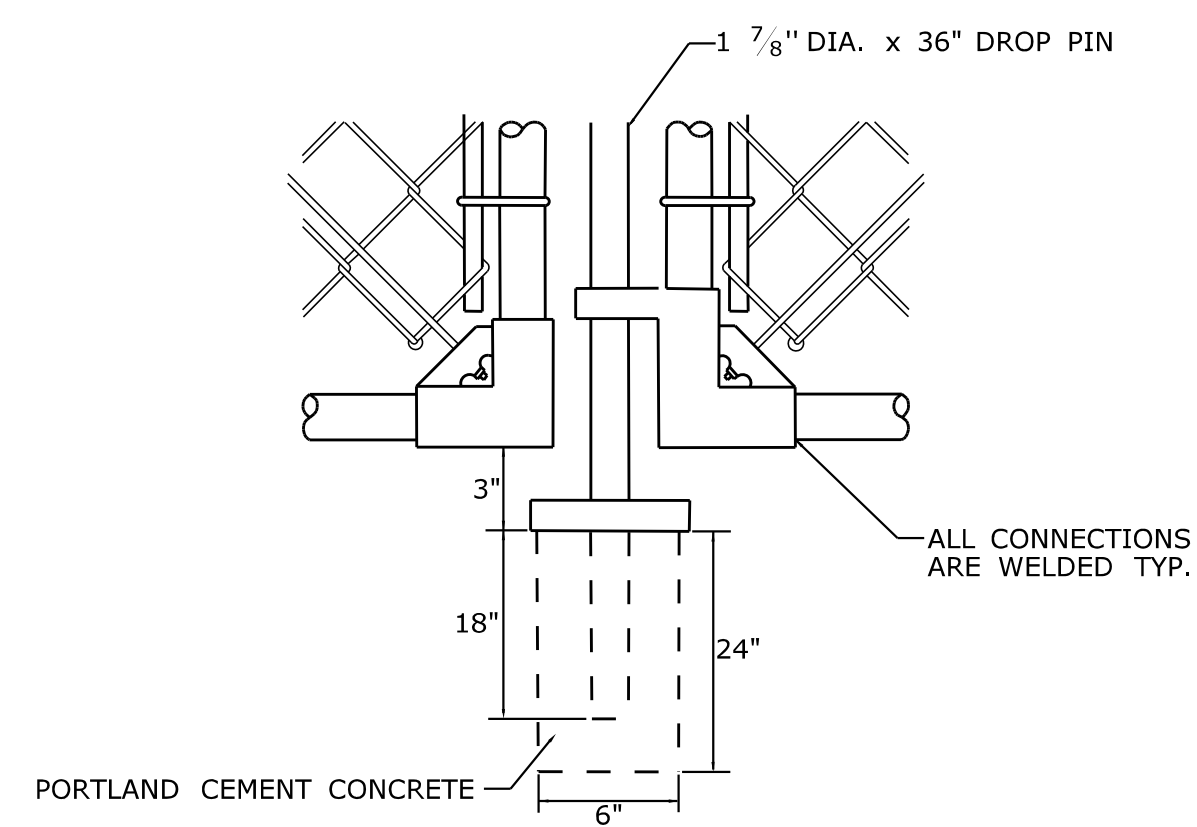
**SINGLE CANTILEVERED SLIDING GATE**



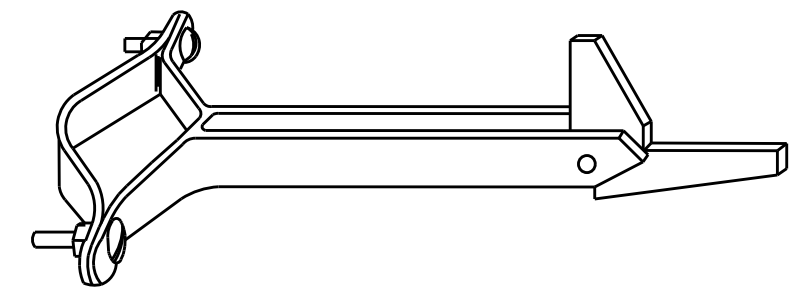
**TOP GATE HINGE**



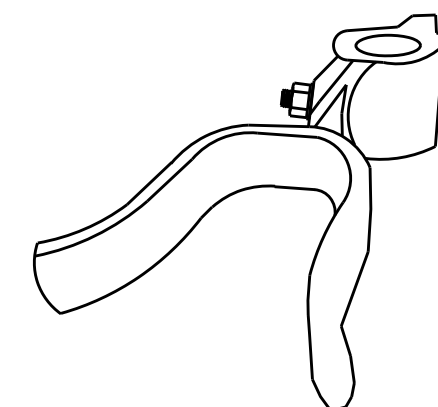
**GATE HINGE BOTTOM**



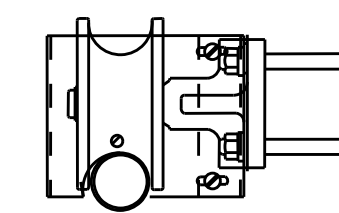
**GATE STOP**



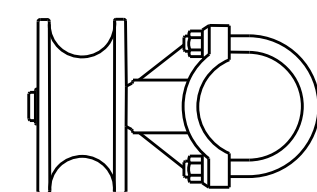
**GATE HOLD BACK**



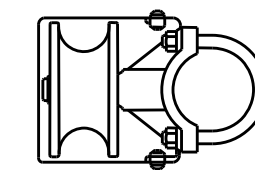
**GATE LATCH**



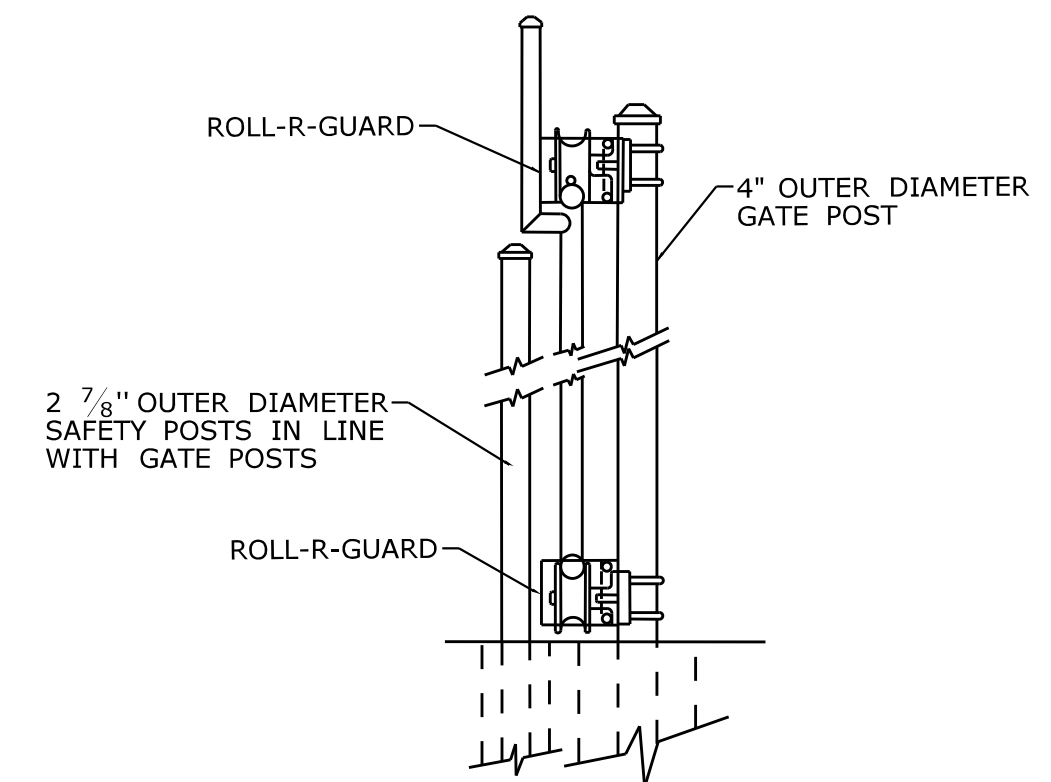
**ROLLER ASSEMBLY WITH ROLL-R-GUARD (TOP)**



**ROLLER ASSEMBLY (GUARD NOT SHOWN)**



**ROLLER ASSEMBLY WITH ROLL-R-GUARD (BOTTOM)**



**SECTION AT GATE POSTS WITH ROLLER COVERS/GUARDS AND SAFETY POSTS**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



Plotted Date: 5/14/2020

DESIGNER/DRAFTER:
CHECKED BY:
SCALE IN FEET
0 40 80
SCALE 1"=40'

Filename: ...\\Details\\Live Oaks MSD-05.dgn

DATE: 5/14/2020

SIGNATURE/  
BLOCK:

PROJECT TITLE:

LIVE OAKS ELEMENTARY SCHOOL  
PARKING LOT IMPROVEMENTS

TOWN:

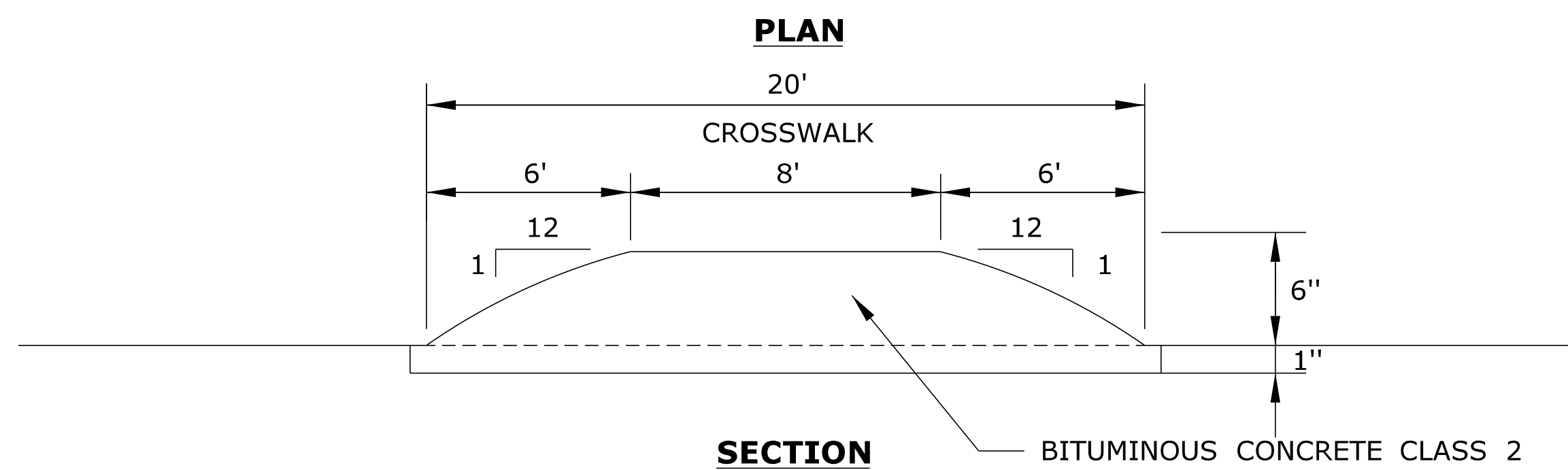
MILFORD

DRAWING TITLE:

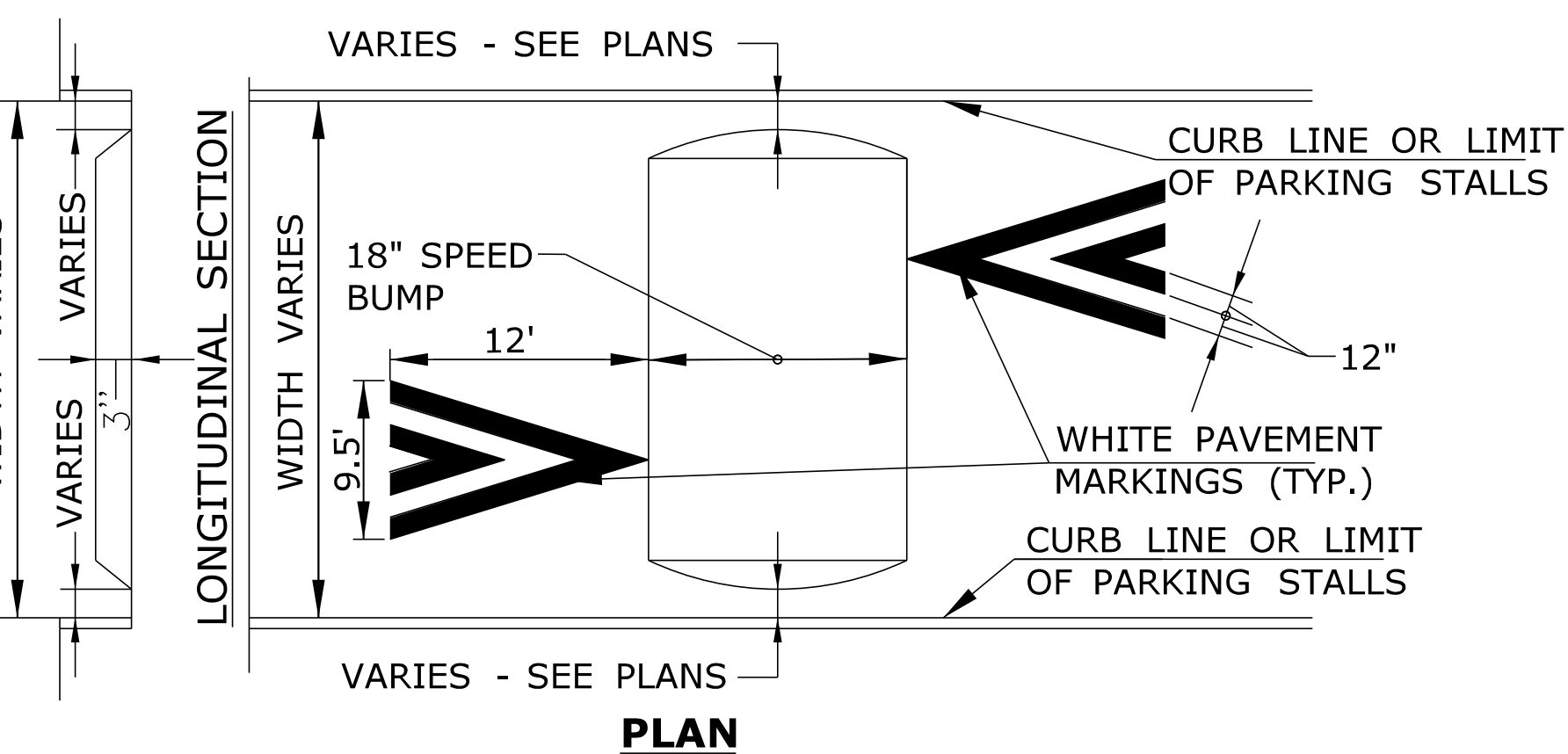
MISCELLANEOUS DETAILS

PROJECT NO.
19025
DRAWING NO.
MDS-05
SHEET NO.
14






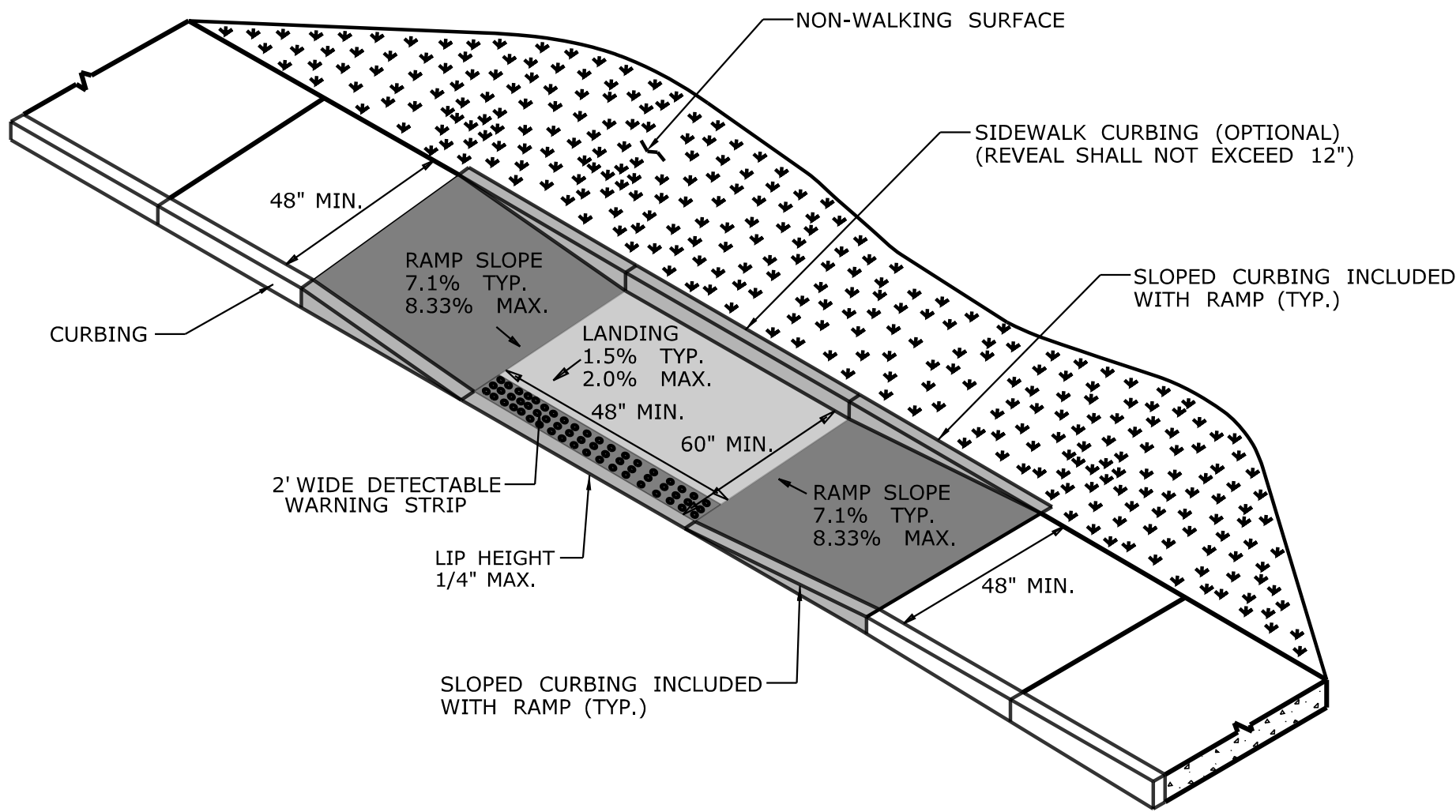
N.T.S.



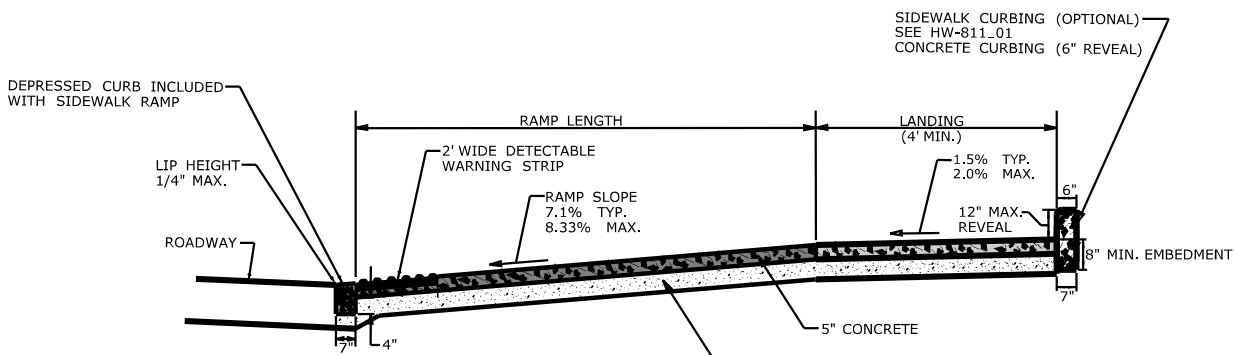
NOT TO SCALE

					DESIGNER/DRAFTER:		SIGNATURE/ BLOCK:	PROJECT TITLE:  LIVE OAKS ELEMENTARY SCHOOL PARKING LOT IMPROVEMENTS	TOWN:	MILFORD	PROJECT NO. 19025
					CHECKED BY:				DRAWING NO.	MDS-06	
					<div>SCALE IN FEET</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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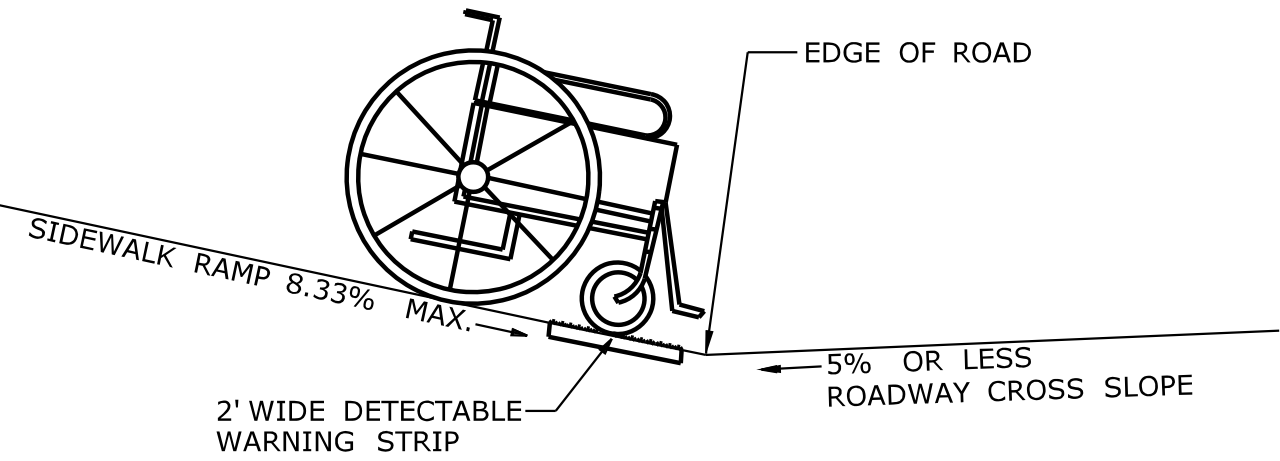


PARALLEL RAMP WITHOUT  
NON-WALKING SURFACE  
(TYPE 9)

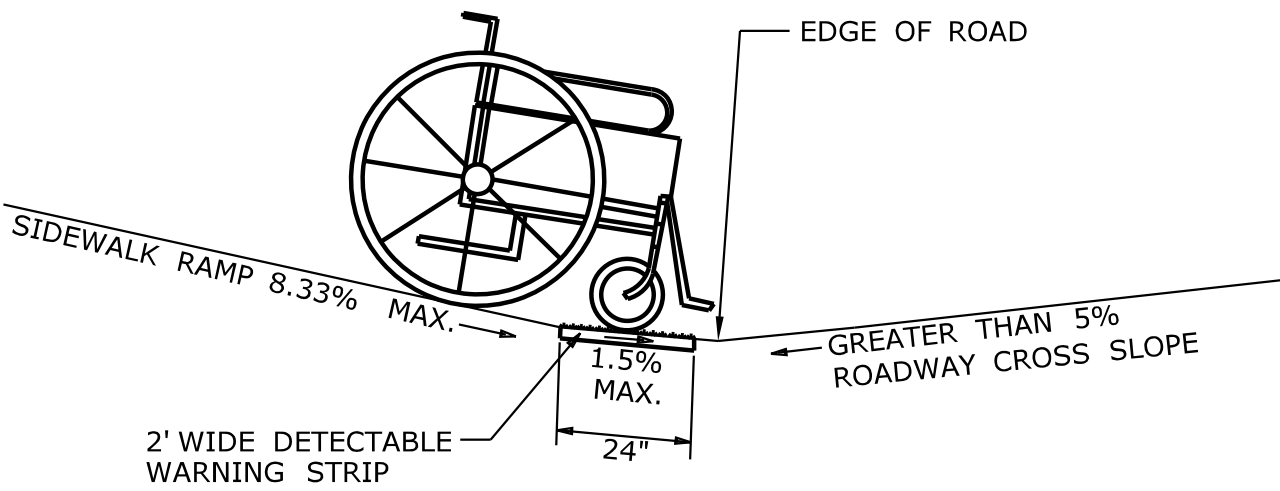


BASIC RAMP ATTRIBUTES

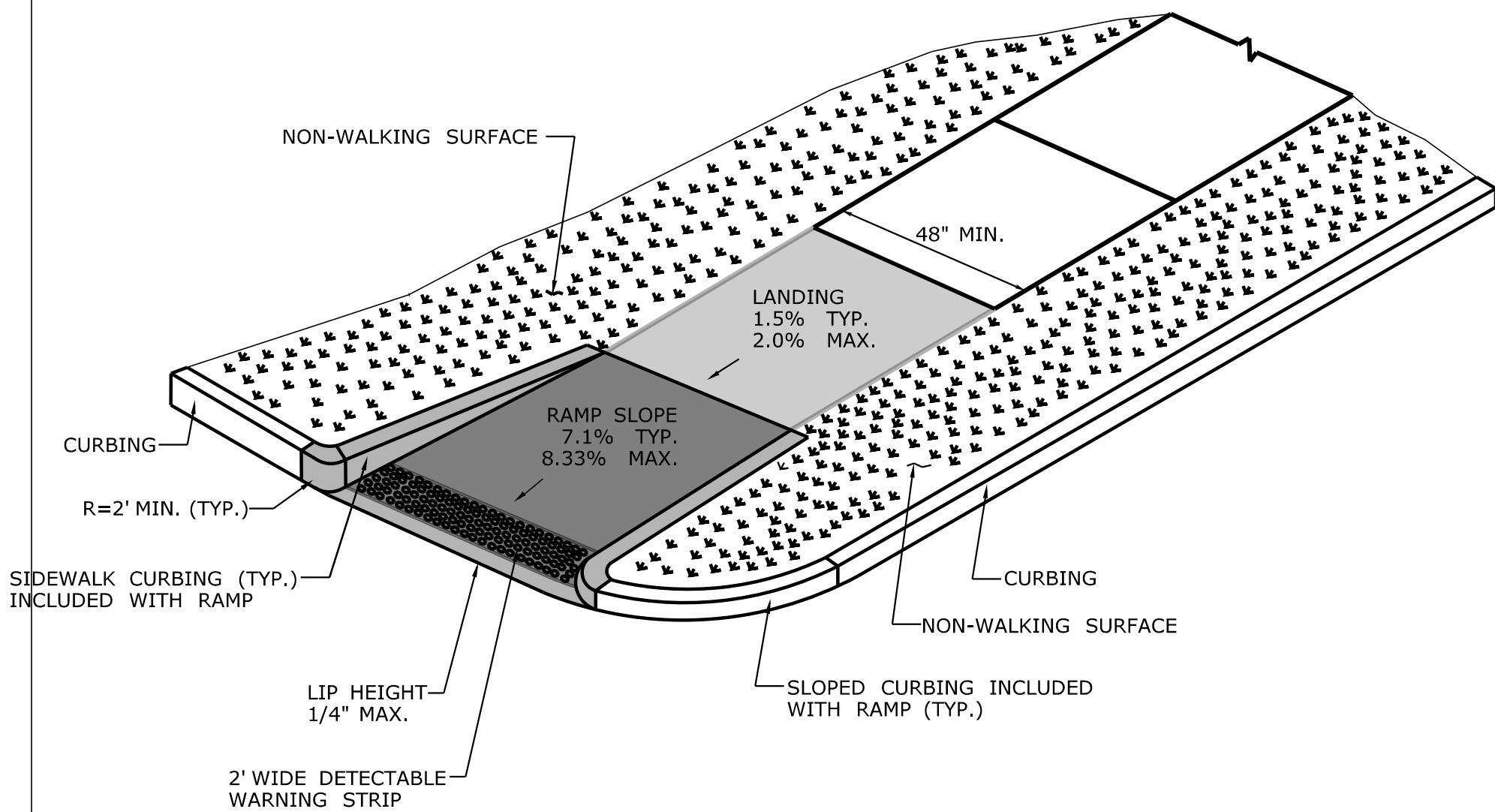
- GENERAL NOTES:**
1. SIDEWALK RAMP SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
  2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED  $\frac{1}{4}$  INCH.
  3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
  4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



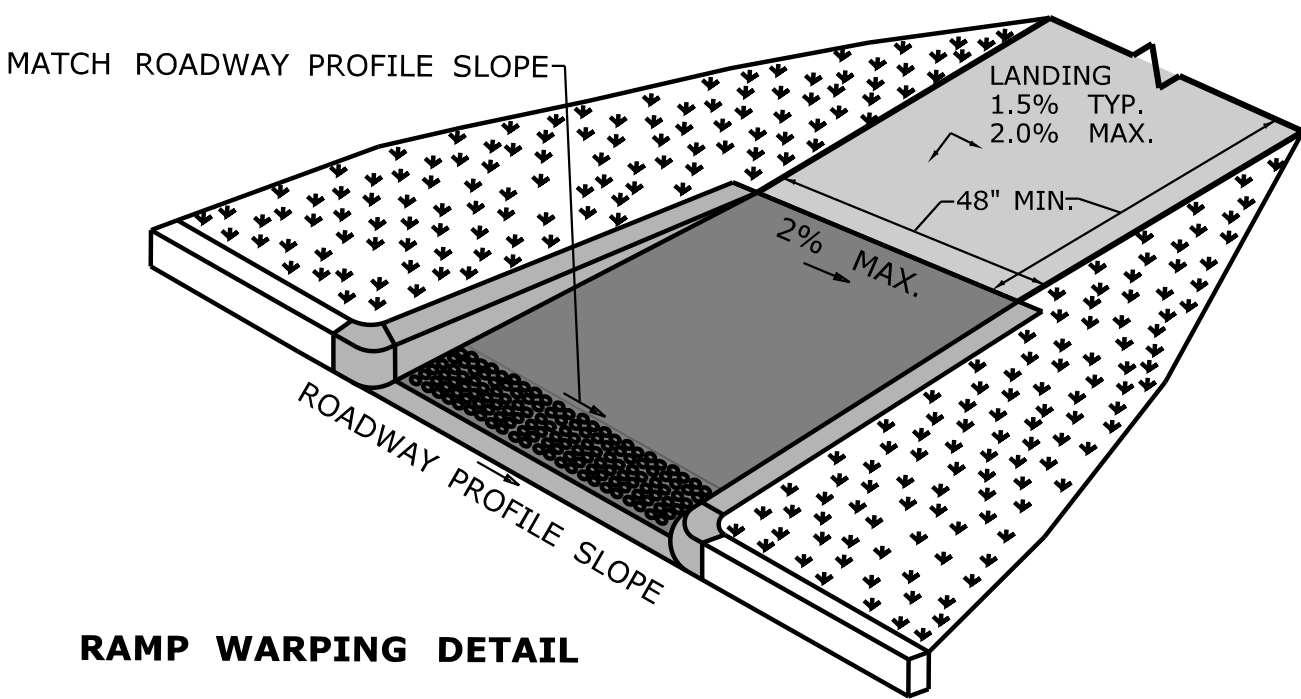
SIDEWALK RAMP GRADE AT  
ROADWAY CROSS SLOPE OF 5% OR LESS



SIDEWALK RAMP GRADE AT  
ROADWAY CROSS SLOPE OF GREATER THAN 5%



SINGLE DIRECTION - RETURN CURB  
WITH NON-WALKING SURFACE  
(TYPE 16)



RAMP WARPING DETAIL

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3 % PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER:
CHECKED BY:
SCALE IN FEET
0 40 80
SCALE 1"=40'

Filename: ...\\Details\\Live Oaks MSD-07.dgn

DATE: 5/14/2020

SIGNATURE/ BLOCK:

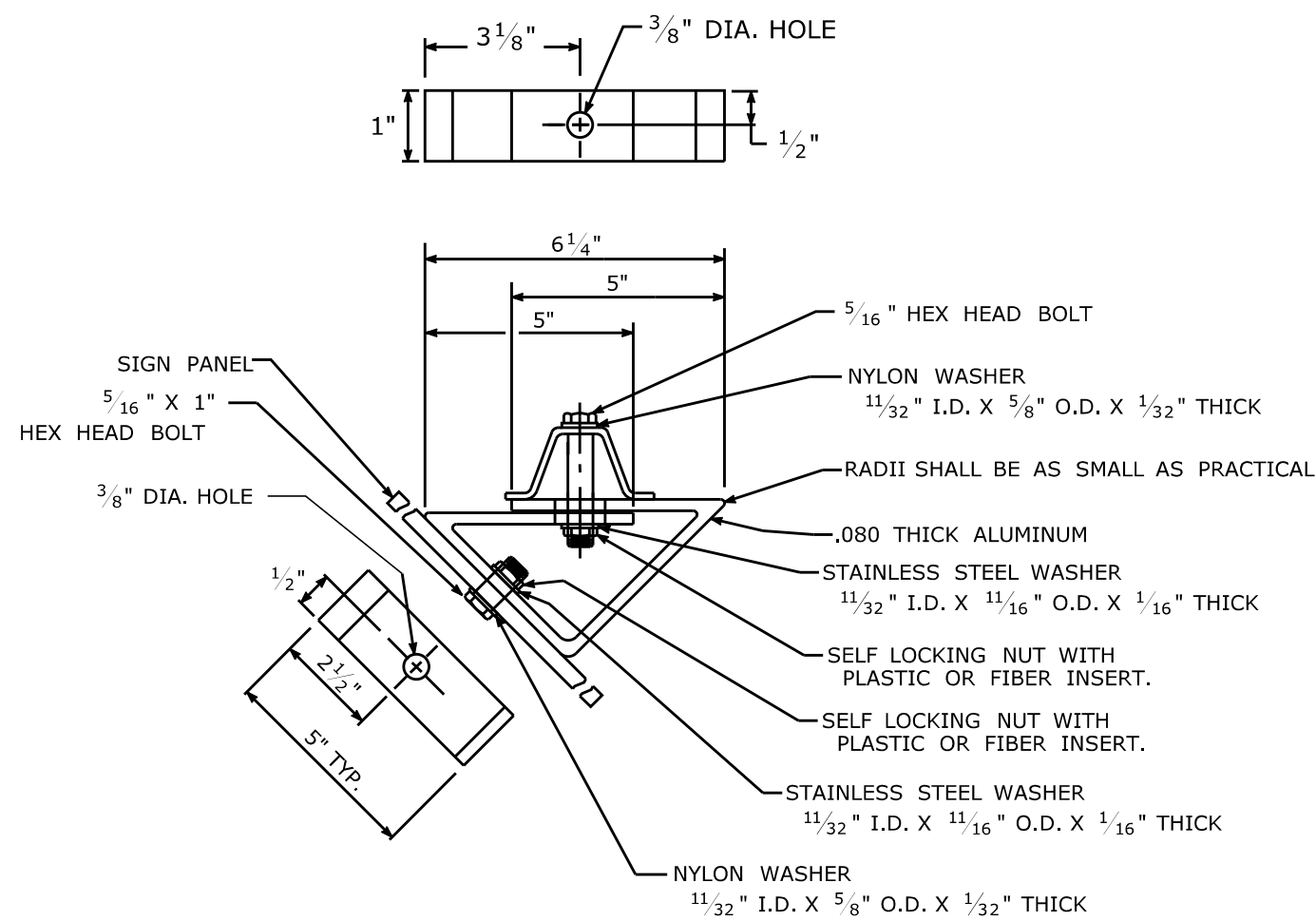
PROJECT TITLE:
LIVE OAKS ELEMENTARY SCHOOL PARKING LOT IMPROVEMENTS

TOWN:
MILFORD
DRAWING TITLE:
MISCELLANEOUS DETAILS

PROJECT NO.
19025
DRAWING NO.
MDS-07
SHEET NO.
16



## 45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS



1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL.  
STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SIGNS SHALL BE 4 LBS./FT.

5. AUTOMOBILE ACCESSIBLE PARKING SPACES SHALL BE 15' WIDE INCLUDING 5' OF CROSSHATCH.
6. VAN ACCESSIBLE PARKING SPACES SHALL BE 16' WIDE INCLUDING 8' OF CROSSHATCH.
7. ACCESS AISLES FOR ANGLED VAN PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.
8. CROSS HATCHED ACCESS AISLES SHALL NOT BE SHARED BETWEEN PARKING SPACES.

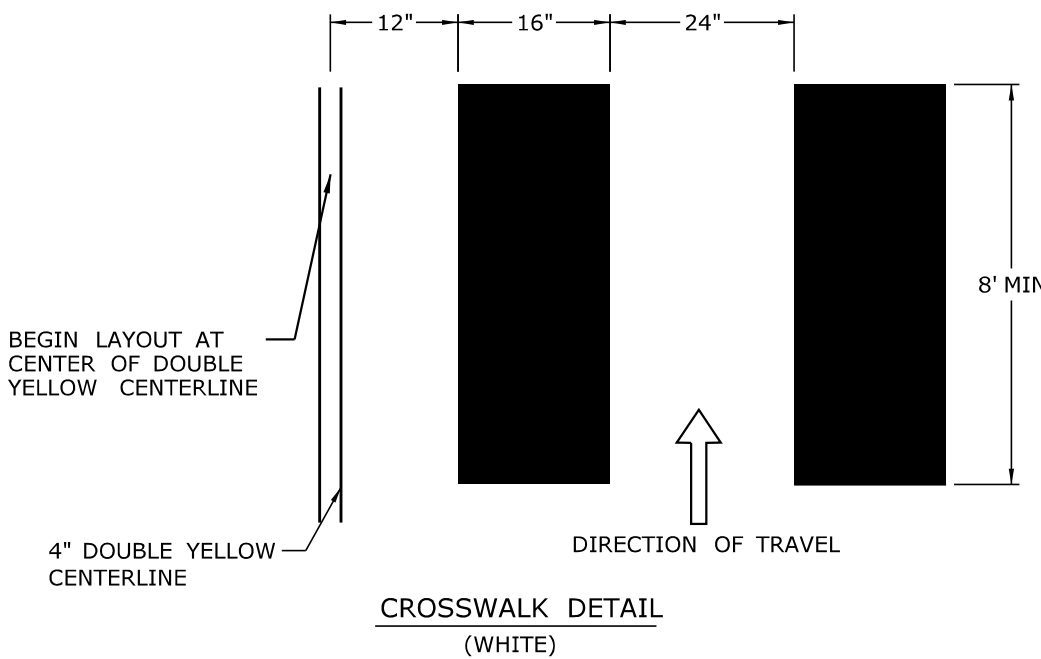


Diagram illustrating the placement of a vertical sign on a post. The diagram shows a cross-section of the road and sidewalk. Key dimensions and labels include:

- A**: Total height of the sign above the sidewalk.
- B**: Horizontal distance from the edge of the travelway to the post.
- C**: Height of the sign above the shoulder.
- Labels**: RETROREFLECTIVE STRIP (OPTIONAL), EDGE OF TRAVELWAY, SHOULDER, EDGE OF SHOULDER OR FACE OF CURB, SIDEWALK.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT (1)	ASSEMBLY LOCATION
7'	2' (2)	7'	PARKING AREAS (3)
7'	2' (2)	7'	SIDEWALKS (3)

- ② A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.
- ③ A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT (1)	ASSEMBLY LOCATION
7'	2' (2)	7'	PARKING AREAS (3)
7'	2' (2)	7'	SIDEWALKS (3)

[illegible]