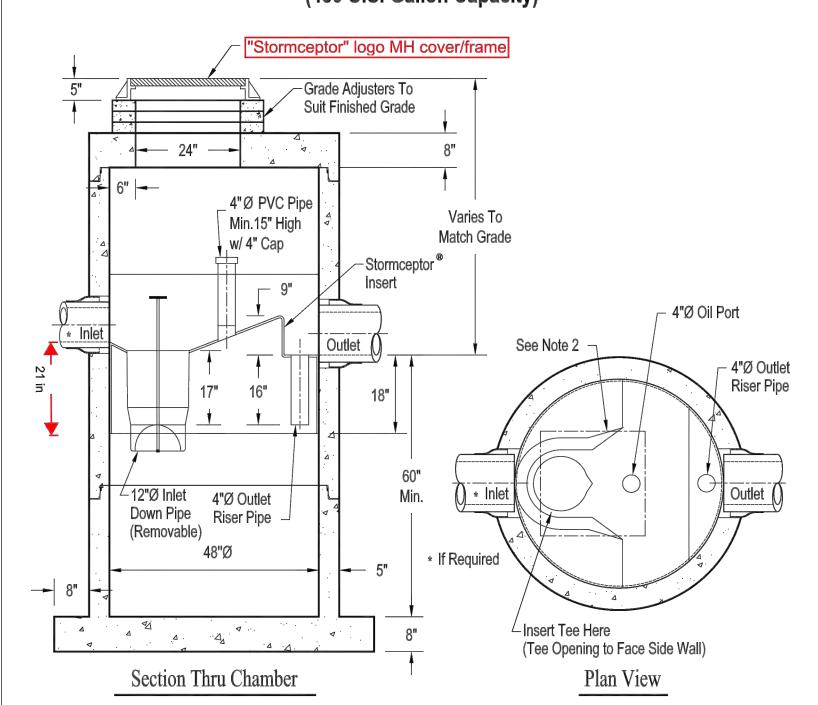
- Rinker

Concrete Pipe Division

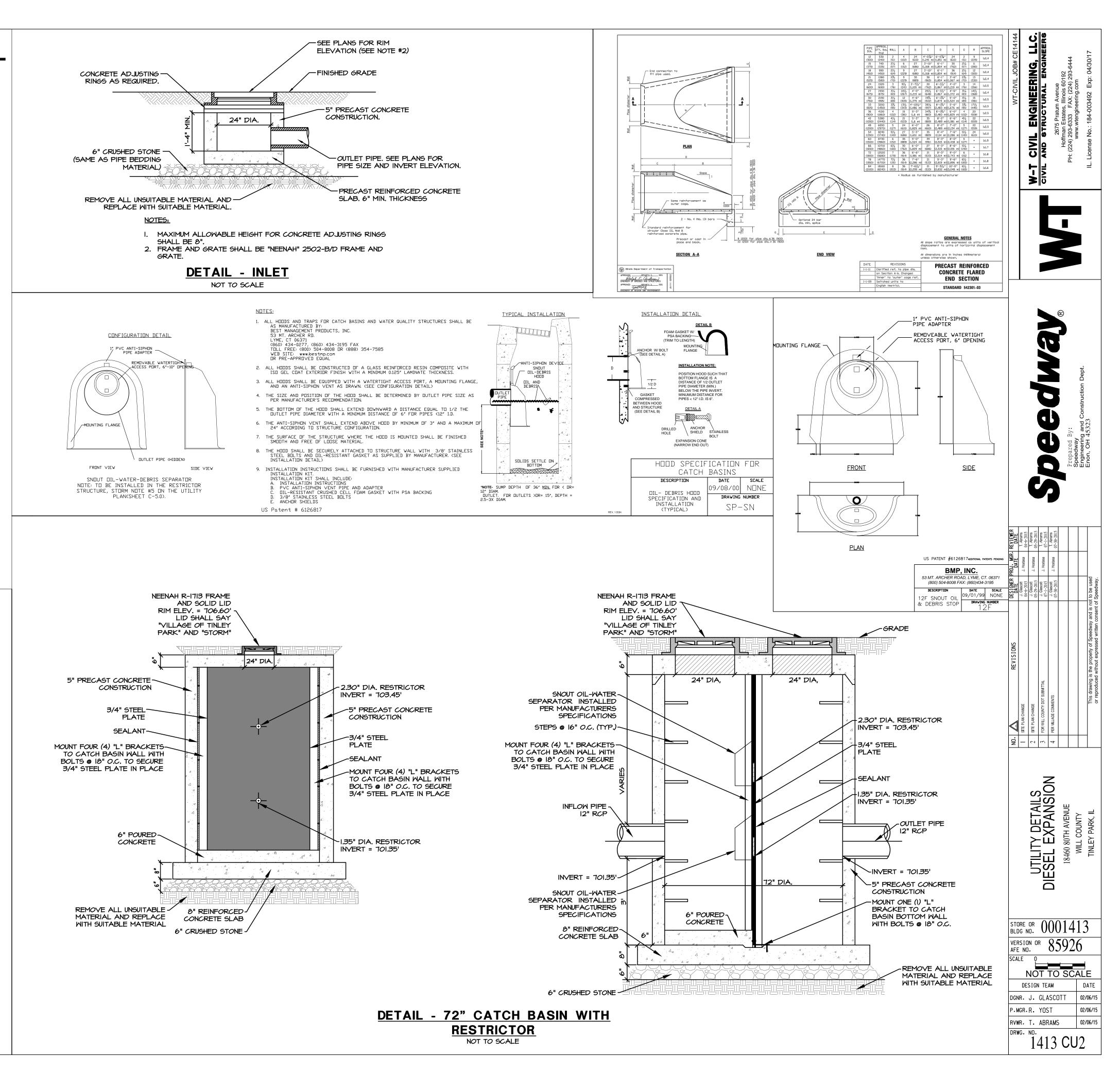
STC 450i Precast Concrete Stormceptor® (450 U.S. Gallon Capacity)

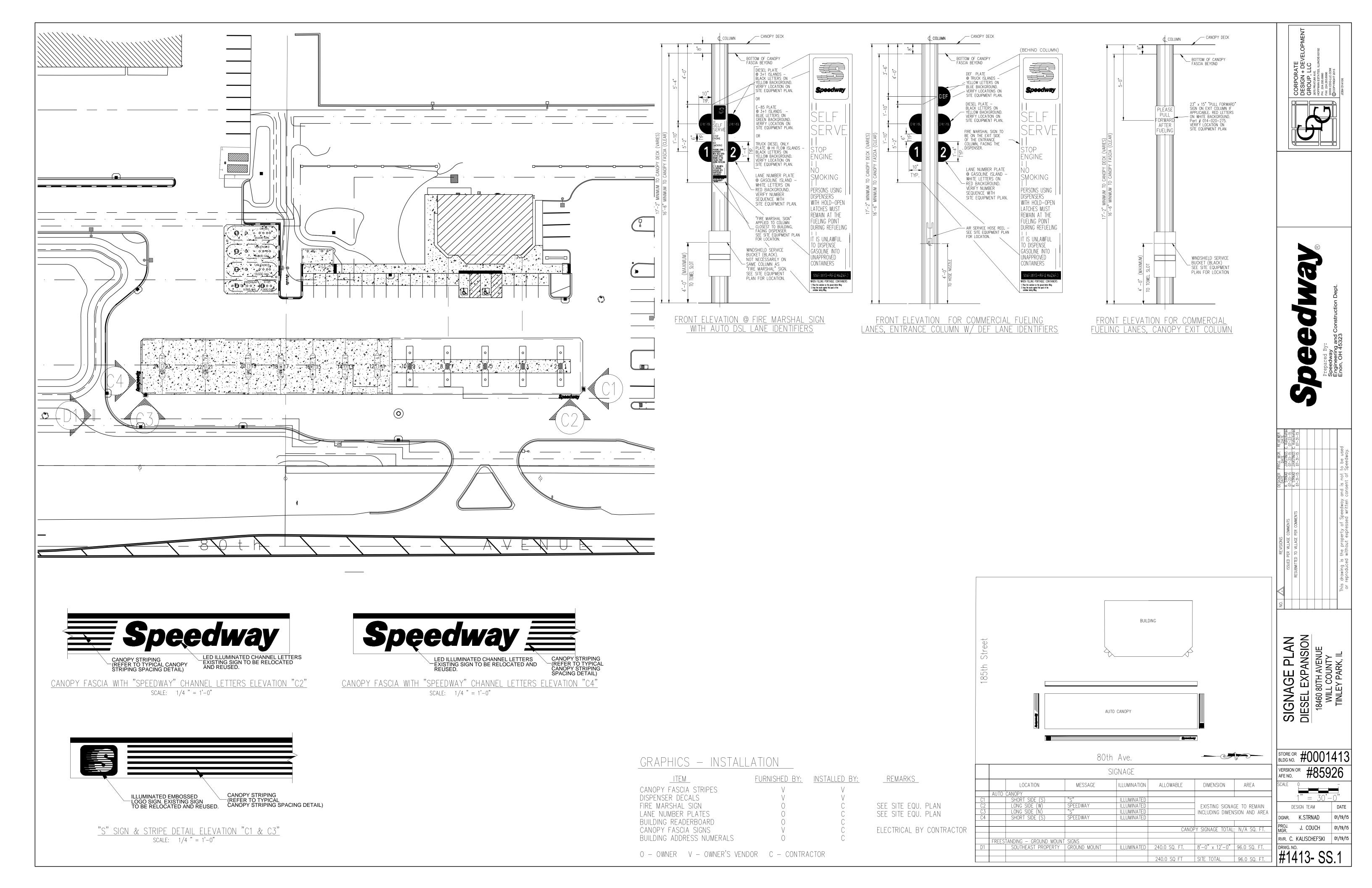


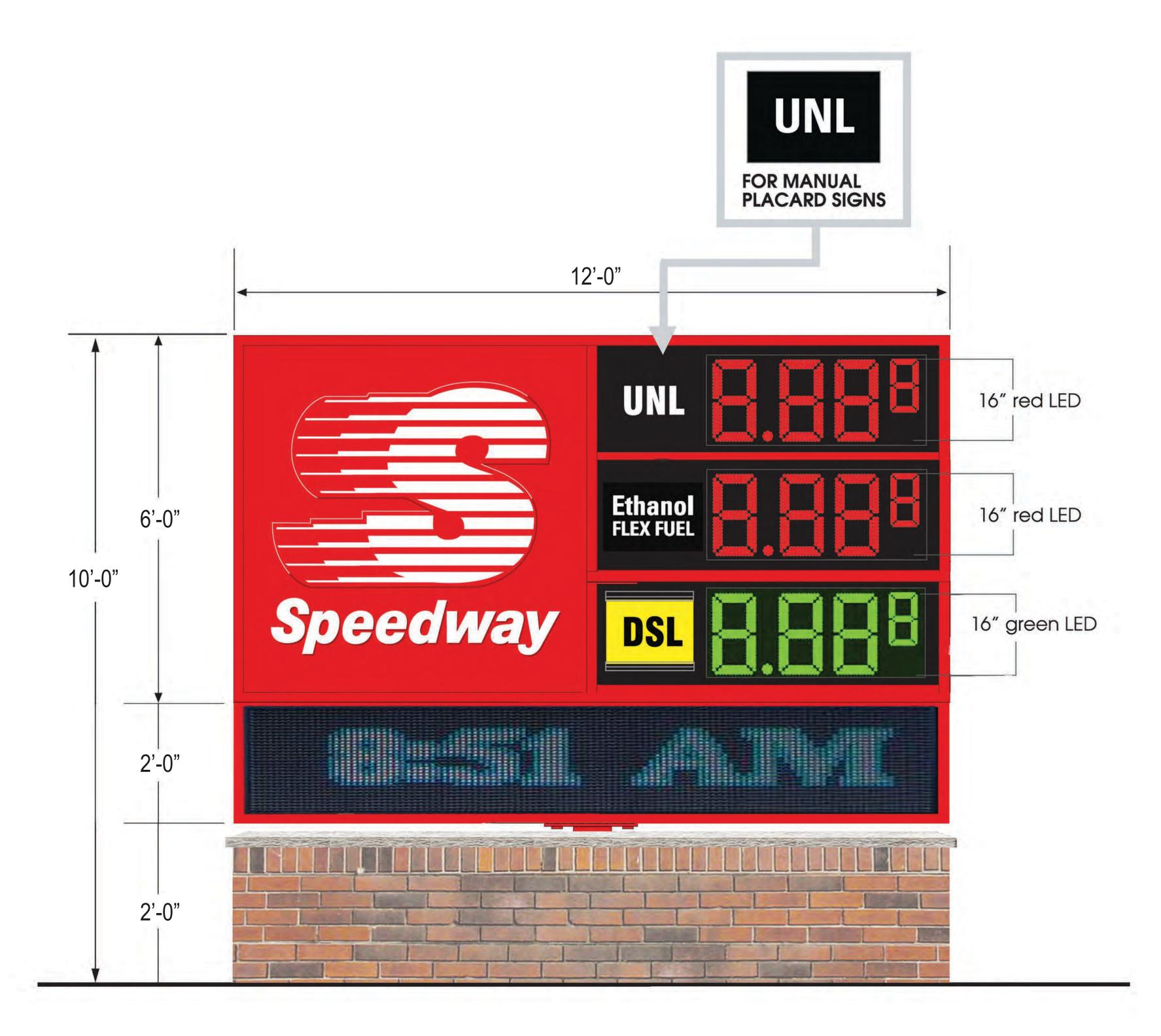
Notes

- 1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
- 2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
- 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
- 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

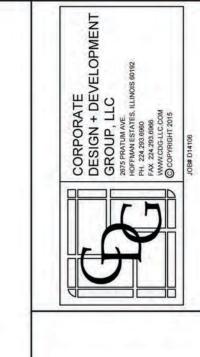
Rinker 027







96 SQ. FT. GROUND MOUNT SIGN "D1"



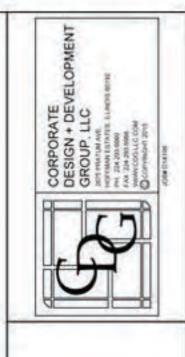
GROUND MOUNT SIGN
DIESEL EXPANSION
18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR #0001413

RVR. C. KALISCHEFSKI 01/19/15 DRWG. NO. #1413- SS.2



EXISTING CAR WASH SIGN





MILL COUNTY
TINLEY PARK, IL

STORE OR #0001413
VERSION OR #85926
SCALE D______
DESIGN TEAM DATE

DESIGN TEAM DATE

DGNR. K.STRNAD 01/19/15

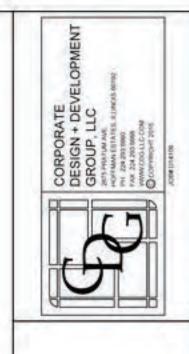
PROJ. J. COUCH 01/19/15

RVR. C. KALISCHEFSKI 01/19/15

#1413- SS 3



EXISTING STORE SIGN



Prepared By:
Speedway
Engineering and Construction Dept.
Enon, OH 45323

RESISTANTED TO VILIACE PER COMMENTS

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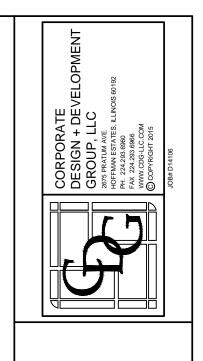
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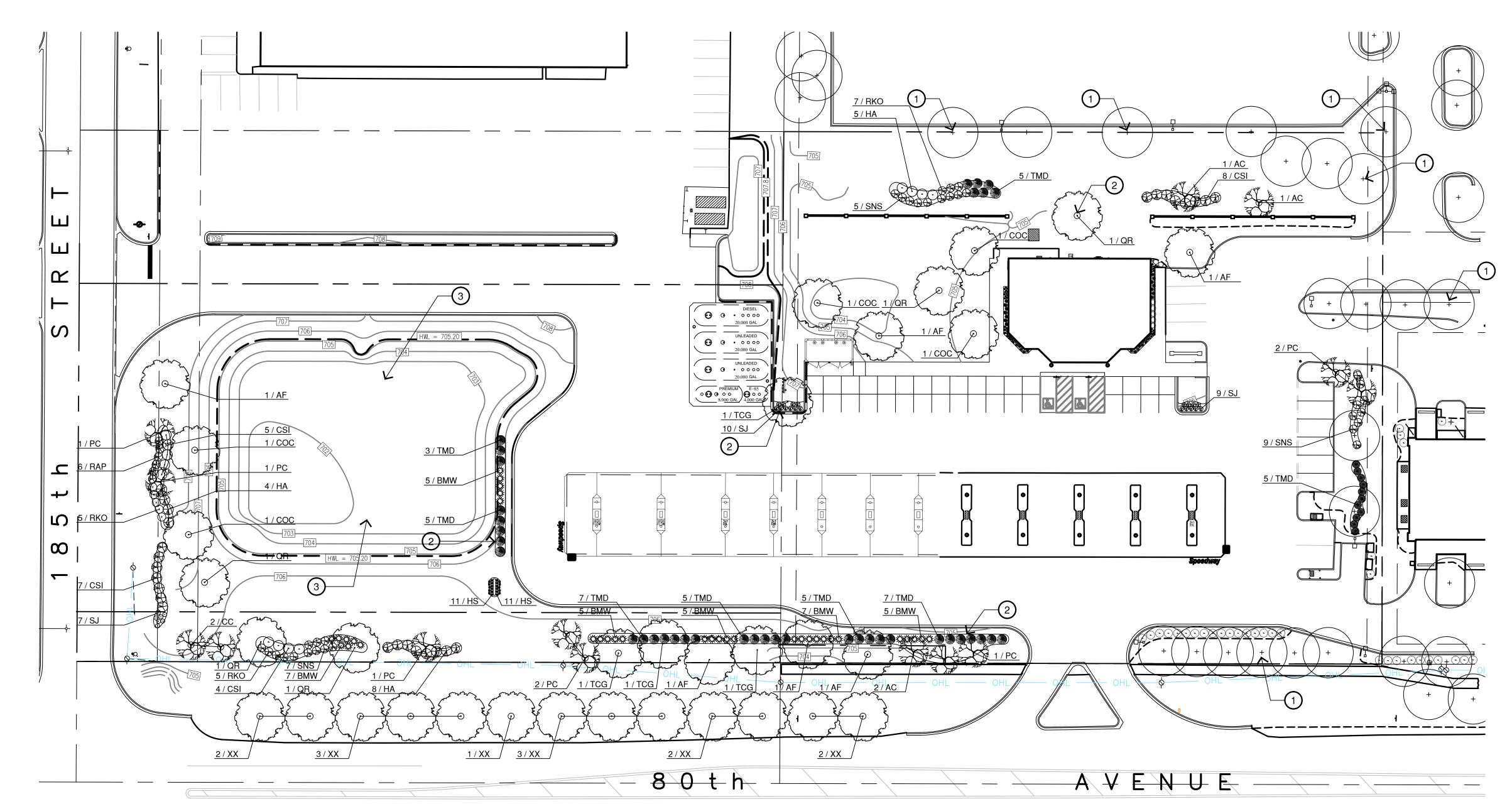
18460 80TH AVENUE
WILL COUNTY

STORE OR #0001413

VERSION OR #85926

DESIGN TEAM DATE OF THE OTHER O





Notes

- Denotes location of existing tree to remain. Protect during Construction. (See Existing Tree Plan)
- Remove all turf encountered within bed limits and haul from site. Furnish and install 3" minimum layer of double shredded hardwood bark mulch in all planting beds and tree rings. (See Specifications)
- 3. Detention Area Plantings. (See Civil Engineering Plans)

Fine grade, fertilize, seed and blanket all disturbed areas. (See Specifications)

Key	Botanical Name	Size	Quar
	(Common Name)		
Shade -	Trees		
AF	Acer fremanii 'Autumn Blaze' (Autumn Blaze Maple)	2 1/2"	5
COC	Celtis occidentalis 'Chicagoland' (Chicagoland Hackberry)	2 1/2"	3
QR	Quercus rubra (Red Oak)	2 1/2"	4
TCG	Tilia cordata 'Greenspire' (Greenspire Linden)	2 1/2"	5
Orname	ental Trees		
AC	Amelanchier canadensis (Shadblow Serviceberry)	2 1/2"	4
PC	Pyrus calleryana 'Chanticleer' (Chanticleer Callery Pear	2 1/2"	2
Deciduo	ous Shrubs		
CSI	Cornus sericea 'Isanti' (Isanti Redtwig Dogwood)	36"	16
НА	Hydrangea arborescens (Smooth Hydrangea)	24"	1:
RAP	Ribes alpinum 'Green Mound' (Green Mound Alpine Currant)	24"	6
RKO	Rosa 'Knockout' (Knockout Rose)	24"	1
SJ	Spiraea japonica 'Little Princess' (Little Pincess Spirea)	24"	1
SNS	Spiraea nipponica 'Snowmound' (Snowmound Spirea)	24"	1
Evergre	en Shrubs		
BMW	Buxus microphylla 'Wintergreen' (Wintergreen Boxwood)	24"	3
TMD	Taxus x media 'Densiformis' (Dense Anglojap Yew)	24"	3
Perenni	als and Grasses		
ACV	Astillbe chinensis 'Visions' (Visions False Spirea)	1 Gal.	18
HCA	Hemerocallis 'Chicago Apache' (Chicago Apache Daylily)	1 Gal.	1
HS	Hemerocallis 'Stella-de-Oro' (Stella-de-Oro Daylily)	1 Gal.	2
HAP	Heuchera americana 'Pewter Moon' (Pewter Moon American Alumroot)	1 Gal.	2
HF	Hosta fortunei 'Francee' (Francee Hosta)	1 Gal.	7
PAH	Pennisetum alopecuroides 'Hamelin' (Dwarf Fountain Grass)	1 Gal.	7

The quantities listed above are for reference only.

The Contractor is responsible for confirming all quantities based on the plant materials shown and identified on the Landscape Plan.

North Project #: B15010 Scale: 1" = 30'



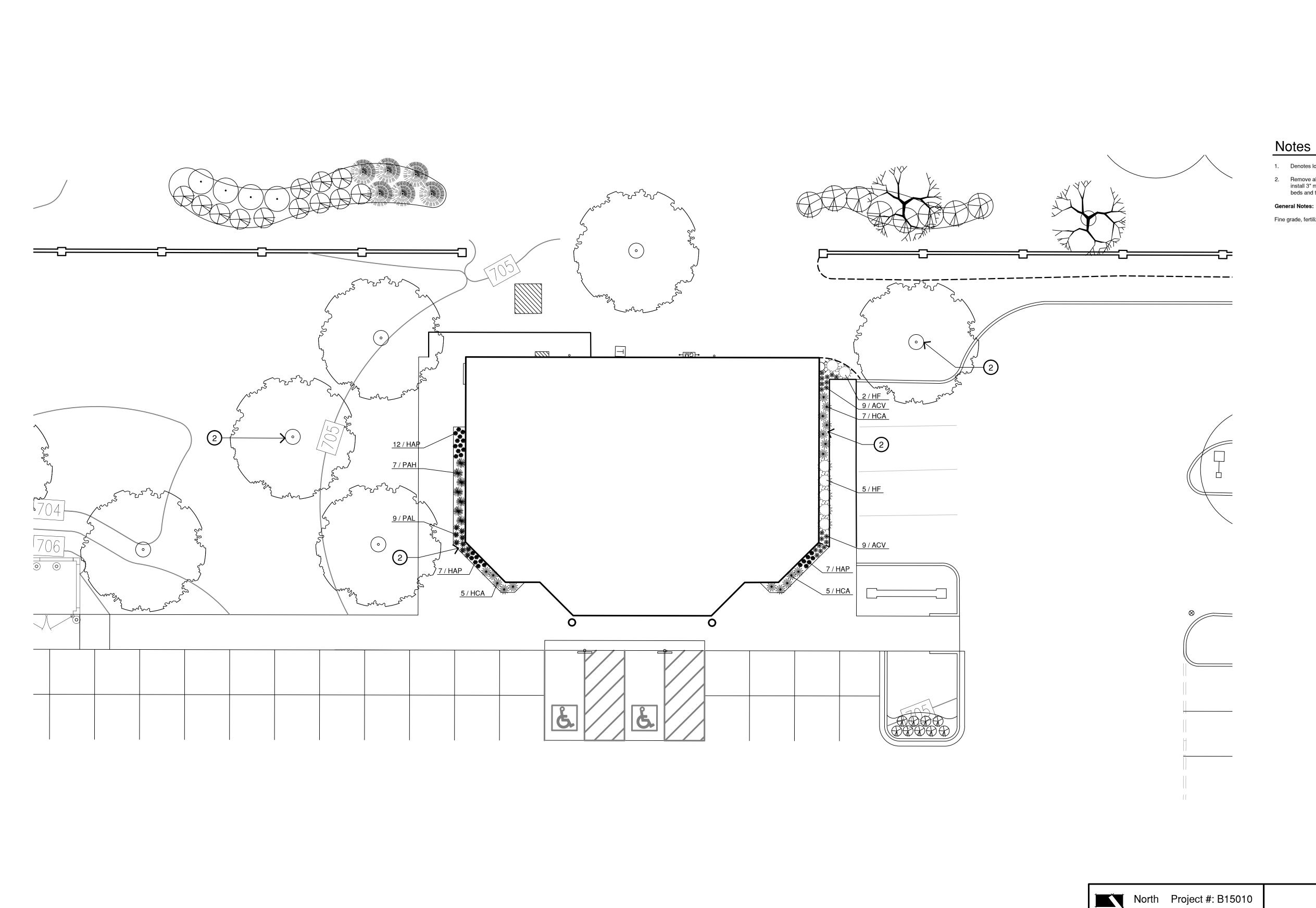
Landscape Architecture # Land Planning # Recreational Planning & Design 2675 Pratum Avenue, Hoffman Estates, IL 60192

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LANDSCAPE PLAN
DIESEL EXPANSION
18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR #0001413 VERSION OR #85926



- 1. Denotes location of existing tree to remain. Protect during Construction.
- Remove all turf encountered within bed limits and haul from site. Furnish and install 3" minimum layer of double shredded hardwood bark mulch in all planting beds and tree rings. (See Specifications)

Fine grade, fertilize, seed and blanket all disturbed areas. (See Specifications)

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DETAILED LANDSCAPE PLAN

DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR #0001413

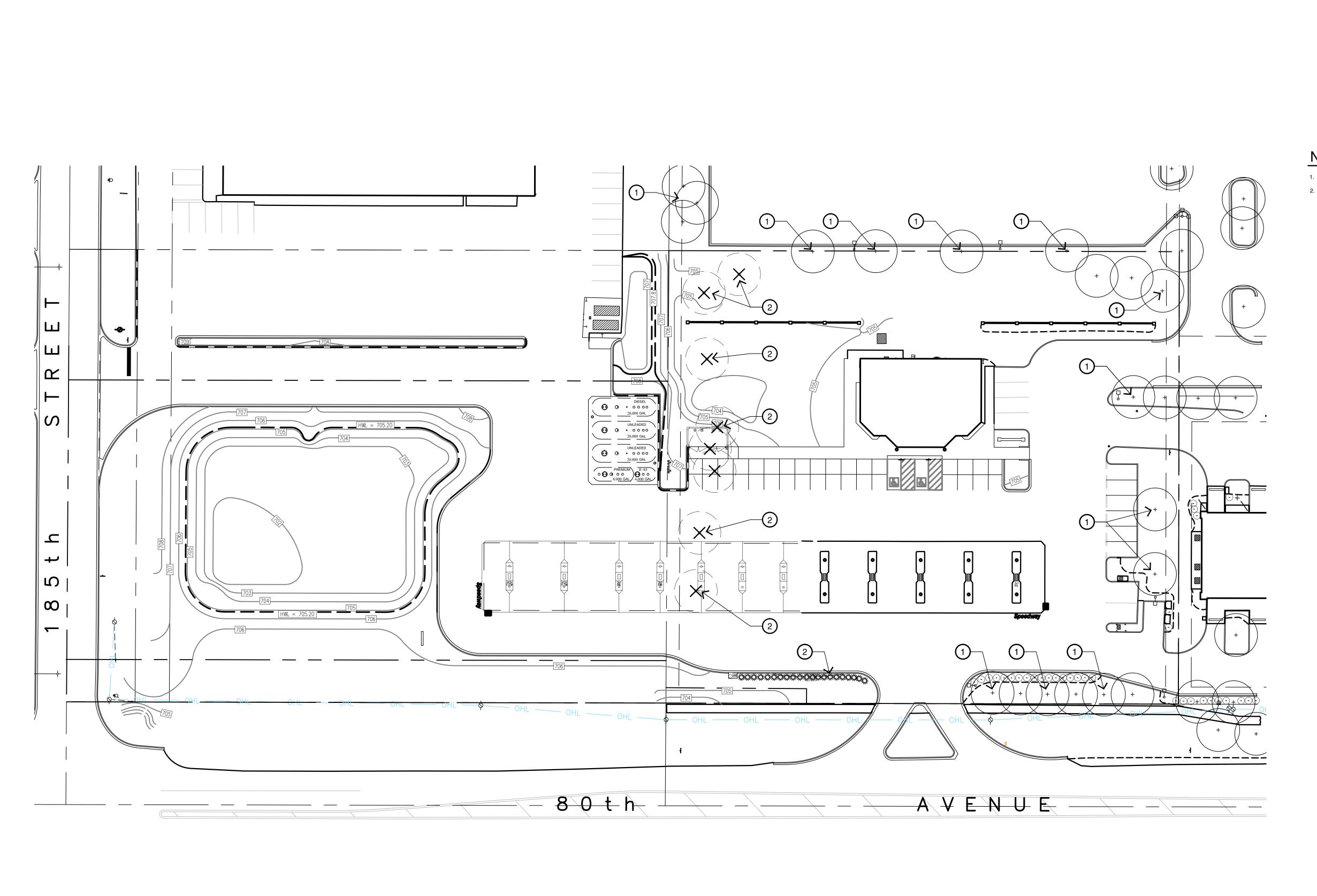
VERSION OR #85926

	DESIGN TEAM	DATE
DGNR.	K.STRNAD	01/19/15
PROJ. MGR.	J. COUCH	01/19/15
	C. KALISCHEFSKI	01/19/15
DRWG	413- L	P.2

Brusseau Design Group, LLC

Landscape Architecture * Land Planning * Recreational Planning & Design 2675 Pratum Avenue, Hoffman Estates, IL 60192

Scale: 1" = 10'





- 1. Denotes location of existing tree to remain. Protect during Construction.
- Denotes location of existing tree to be removed, including root package and haul from the site.

root package and haul

Prepared By:
Speedway
Engineering and Construction Dept.
Enon, OH 45323

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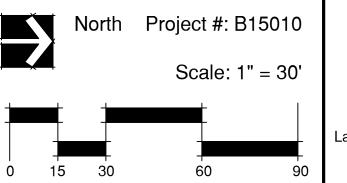
LANDSCAPE PLAN
DIESEL EXPANSION
18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR #0001413
VERSION OR #85926

VERSION OR #85926

SCALE 0

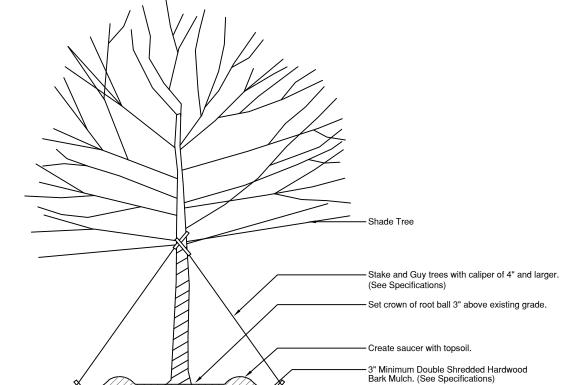
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DGNR.	K.STRNAD	01/19/15
PROJ. MGR.	J. COUCH	01/19/15
RVR.	C. KALISCHEFSKI	01/19/15
DRWG.	NO.	



Brusseau Design Group, LLC

Landscape Architecture * Land Planning * Recreational Planning & Design
2675 Pratum Avenue, Hoffman Estates, IL 60192

#1413- LP.3



Fold down or cut and remove top 1/3 of burlap.

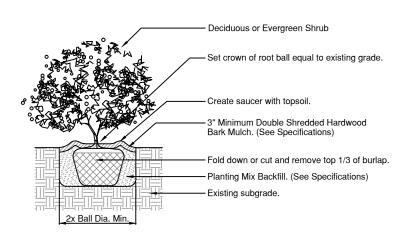
- Planting Mix Backfill, (See Specifications)

Set Rootball on undisturbed subgrade.

Shade Tree Planting

2x Ball Dia. M

lardwood Bark Mulch. See Specifications) Planting Bed raised for adequate drainage. Planting Mix Backfill (See Specifications) Existing subgrade.



Perennial Planting

Shrub Planting

Section 32 92 00 - Turf and Grasses

This work shall consist of cultivating and fine grading of topsoil, rock and debris removal, fertilizing and seed installation or sod installation.

1.1 Submittals

1.0 General Description

The Contractor must submit fertilizer mixture tags, seed mixture tags or sod specifications from the sod nursery for approval by the Landscape Architect or the Owner's Representative. Products must be approved by the Landscape Architect or the Owner's Representative prior to any installation.

1.2 Product Delivery, Storage and Handling

All sod, seed, fertilizer and other materials to be used for the installation must be protected from weather, damage during transit and vandalism while stored at the project site. Any materials that have been damaged by any of the above will not be acceptable for use on the

1.3 Protection

The Contractor will be responsible for the protection of any seeded or sodded areas until the final acceptance of the installation. The Contractor may only use barricades, devices or products that are acceptable to the Owner or the Landscape Architect for protection of seeded or sodded areas

2.0 Products

A. Water: The Contractor will be required to supply water including all meters, hoses and connections, etc. necessary to water the turf areas.

B. Sod:

All sod used for this project must be blended Blue Grass as specified below, with no more than 5% weeds or other grasses. The sod must be free of rocks, stones or debris and must have a 1 minimum thickness of soil and an adequate root system. Sod must be cut into one (1) square yard sections. Big roll sod in widths of 30" are also acceptable.

All sod used must contain equal percentages of at least four different varieties of the following:

a. Midnight b. Columbia c. NuGlade d. Rugby II e. Bluemoon

f. Nublue

All sod must be supplied by growers within a fifty (50) mile radius of the project site. The sod must be delivered to the project site on skids or pallets. Dumping of sod from any vehicle is not permitted. Damaged sod or any sod that appears to be dry or in decline will not be accepted. All sod must be planted within forty-eight (48) hours after it has been harvested.

Grass seed mixture must be composed of the following seeds mixed in proportions by weight, with the following minimum percentages of purity and

General or Common Areas:

Proportion		Purity	
By Weight	Name of Grass	Percent	Germination
80%	Blended Blue Grass (Midnight,	90%	80%
	Columbia, NuGlade, Rugby II, o	r	
	Bluemoon) Use at least 4		
	varieties.		
20%	Perennial Rye (Roadrunner	98%	80%
	Manhattan III, Charger II		
	And Catalina10%		

Athletic Fields:

Proportion		Purity		
By Weight	Name of Grass	Percent	Germination	
15%	Banff Kentucky Blue	98%	85%	
15%	Touchdown Kentucky Blue	98%	85%	
15%	Challenger Kentucky Blue	98%	85%	
15%	Rugby Kentucky Blue	97%	80%	
10%	Limousine Kentucky Blue	98%	85%	
30%	Alliance Rye	98%	90%	

All seed must be delivered to the project site in unopened bags, which include identification tags or labels

D. Fertilizer

Commercial fertilizers must contain the following percentages by weight:

Prior to Seeding 10-18-18 with 30% Nutralene

Phosphoric Acid 18% 18% After Seeding 25-0-10 Phosphoric Acid Sulfur

All fertilizer must be delivered to the project site in unopened bags, which include identification tags or labels

Section 32 92 00 - Turf and Grasses, continued

3.0 Execution

A. The Contractor must inspect all final grading prepared by the Grading Contractor and request approval from the Landscape Architect or the Owner's Representative to begin seed or sod installation. Any disparities noted in the final topsoil grades must be reviewed by the Landscape Architect and resolved prior to the commencement of seed

B. Fine Grading:

- All areas to be seeded or sodded shall be prepared by pulverizing the soil to a minimum depth of three (3) inches. This process shall include rototilling and/or disking, and raking and dragging the soil to produce a smooth bed for seeding or sod installation. Regardless of whether the area will receive seed or sod. the soil preparation must be consistent. All rocks and other debris 3/4 inch in diameter or greater must be removed from the surface prior to seeding or sodding.
- Should previously conditioned soil become compacted by weather, construction equipment or other means, the area shall be re-conditioned as indicated above.

A. Planting Seasons:

- Seeded Areas: Seed may be installed from March 15th through May 14th and from August 15th through October 1st.
- 2. Sodded Areas: Sod may be installed from March 1st through June 15th and from August 15th through November 1st.
- If requested in writing and approved by the Landscape Architect or the Owner's Representative, the planting seasons listed above may be extended due to favorable weather conditions.

Fertilizer must be mechanically broadcast or spread and tilled into the top three (3) inches of soil at the rate of 5.5 lbs. per 1,000 square feet or 240 lbs/acre.

C. Seeding:

Common Area and Athletic Field Seed shall be mechanically applied at the rate of 5.0 lbs. per 1,000 square feet of area or 220 lbs/acre. The seed shall be spread evenly and lightly raked into the soil.

- Sod shall be installed tightly together with the joints on the long dimension of the sod staggered in a fashion equal to running bond brick
- After the sod is laid, it must be watered thoroughly and rolled if necessary to adhere the sod to the soil.

3.2 Maintenance, Clean-Up and Acceptance

A. Maintenance: The Contractor must provide maintenance of seeded or sodded areas until the date of final acceptance, including the following:

Seeded Areas:

Watering of turf.

- b. Re-filling with topsoil and the overseeding of washed out or rutted areas.
- c. Re-fertilizing with a commercial fertilizer at the rate of 5.5 lbs. per 1,000 square feet (240 lbs/acre) on one occasion after sufficient germination.
- d. Overseeding any turf areas that haven't germinated sufficiently or which 1.04 Guarantee fail to support a uniform and consistent stand of grass. Any such areas must be re-seeded with the similar seed mixture and rate initially applied. Re-seeding must continue until all turf areas are covered with a uniform and consistent stand of grass. A uniform and consistent stand of turf will be defined as turf that is full and even with no bare areas.
- e. All seeded areas must be maintained as noted above for a period of Sixty (60) days after installation or until a uniform and consistent stand of grass has been established.

Sodded Areas:

- Watering of turf.
- Re-fertilizing with a commercial fertilizer at the rate of 5.5 lbs. per 1,000 square feet (240 lbs/acre) on one occasion
- Replacement of sod, which fails to grow or is in a state of decline using the same sod mixture as previously installed
- d. All sodded areas must be maintained as noted above for a period of Thirty (30) days after installation or until a uniform and consistent stand of grass has been established. A uniform and consistent stand of turf will be defined as turf that is full and even with no bare areas.

B. Clean Up:

- All debris generated by this work shall be removed from the site.
- All pavements and walks must be clean and washed of any mud or heavy concentration of soil.
- All planting beds must be edged or spaded to form a smooth curvilinear shape.
- C. Final Inspection and Acceptance:

Upon completion of the required maintenance period, the Contractor must make a written request to the Landscape Architect to schedule a final inspection of the turf areas. The Contractor will be required to make this request a minimum of ten (10) working days prior to the inspection. If upon inspection, the Landscape Architect feels that the turf areas are not established within specification, the Contractor will be required to re-work and maintain those unacceptable areas until a final acceptance has been granted.

Section 32 93 00 - Plants

1.0 General

- A. This work shall consist of the excavation, installation, backfilling, care and maintenance of landscape plantings.
- B. The size and grading standards of plant materials in this specification must conform with the "American Standard for Nursery Stock" by the American Association of Nurservmen.

1.02 Submittals

- A. When required in the plan notes or details, material or product samples must be submitted by the Contractor for approval by the Landscape Architect.
- B. The Landscape Architect shall review the materials or product samples submitted and shall reserve the right to compare the submitted materials with the materials delivered to the project site. If the materials delivered to the project site are not of the same type, consistency and quality as the submitted samples, the Landscape Architect will have the right to reject said products and require the Contractor to provide materials from

Section 32 93 00 - Plants, continued

1.03 Product Delivery, Storage & Handling

Storage of Materials: Plant materials will be permitted to be stored at the project site in location determined by the Owner, but must be protected by the Contractor from theft. damage or vandalism. Plant materials that are stolen, or damaged in any way must be replaced by the Contractor at no additional expense to the Owner. Supplies, including but not limited to marking paint, fertilizer, insecticides, or other chemicals must be stored off site and transported to the site each day for use.

B. Inspections:

- All plant materials shall be subject to inspection and approval by the Landscape Architect or the Owner's Representative at the point of growth nursery or the project site, prior to installation. Should any plant materials be installed prior to inspection, then the Contractor will assume full responsibility for their replacement, including excavation, hauling and new materials, should they be found to be unacceptable.
 - Should any plant materials be found to be unacceptable during the on-site inspection, then they shall be replaced by the Contractor at no additional expense to the Owner.
- 3. The Contractor, at their expense can also arrange for the inspection of plant materials at local point of growth nurseries, which must be located within a fifty (50) mile radius of the project site. The Contractor must pre-tag all shade, ornamental and evergreen trees and a sample of shrubs and perennial materials to be used for the project. The Landscape Architect will review the pre-tagged plant materials and make a decision regarding their acceptability for the project. Should any pre-tagged plant materials not be acceptable, then the Contractor will be responsible for locating another samples for review.
- 4. The Contractor must request the Landscape Architect's attendance at least ten (10) working days in advance for all point of growth nursery inspections.
- The entire cost of the inspections will be borne and paid for the Contractor including Architect's hourly cost of \$150.00/hour, unless otherwise waived by the Architect or paid for directly by the Owner.
- 6. A representative of the Contractor must be present during all plant material

C. Digging and Handling of Plant Material

- All shade trees, ornamental trees and evergreen trees must be balled and burlapped. Shrubs may be balled and burlapped or container grown. Perennials and groundcovers shall be grown in flats or pots.
- 2. Plant materials with cracked or broken balls will not be accepted.
- All balled and burlapped plants that cannot be planted immediately upon delivery shall be healed-in with mulch material and must be watered daily until planted. Plant materials that have been stored on site for a period longer than thirty (30) days will not be accepted.
- All plant materials must be delivered to the project site in covered trailers or protected by a tarps or appropriate coverings during transit.
- Plant materials must be marked for identification with their name or their appropriate key symbol, which can be found on the plant list.
- All plant materials must be protected by the Contractor from theft or vandalism until the completed planting has received Preliminary Acceptance. Any plant material that is stolen or vandalized will be replaced by the Contractor at no additional expense to the

- Plant materials must be guaranteed to grow and thrive for a period of one year from final acceptance. Any plant materials that are in decline as determined by the Landscape Architect or die during this Guarantee Period must be replaced by the Contractor at no additional expense to the Owner, and will be guaranteed for an additional one (1) year period.
- The Contractor will be responsible for repairing any damage to turf or pavements caused by plant material replacement.

- A. Water: The Contractor will be required to supply water including all meters, hoses and connections, etc. necessary to water the landscape plantings.
- B. Peat Moss or Humus: Commercial type sphagnum Peat Moss.
- C. Fertilizer: Agriform Tablets by the Scotts Company, LLC, with the following analysis:

- D. Mulch: A double shredded hardwood bark much material shall be used. Submit sample to the Landscape Architect for approval.
- E. Topsoil: Topsoil required for planting mixture must be pulverized, clean soil, free of weeds, roots, stalks, and other debris. Submit sample to Landscape Architect for
- F. Planting Mixture: Planting mix soil shall consist of topsoil, topped with three (3) inch layer of One Step Soil Conditioner with Mycorrhizae as produced by Midwest Trading Horticultural Supplies, Inc. Till in three (3) inch layer of One Step Soil Conditioner to a depth of twelve (12) inches within topsoil fill. Fertilizer Tablets shall be included in the installation in accordance with manufacturer's instructions.
- Plant Materials: All plant materials used for the project must be nursery grown at a location within a fifty (50) mile radius of the project site.
- 1. All plant materials used for this project must be freshly dug or container grown
- All plant materials must have a typical growth habit, be appropriately branched and densely foliated and shall be disease and pest free.
- All plants must conform to the sizes contained on the plant list and the requirements set forth in the American Standard for Nursery Stock.
- Plant material substitutions may only be made with the written approval of the Landscape Architect. The Contractor must submit all requests for plant material substitutions in writing to the Landscape Architect.
- H. Pre-Emergence Herbicide: Shall be a granular form of Preen Garden Weed Preventer. This granular weed preventer will be applied after mulch installation in all planting beds at a rate of one (1) ounce per ten (10) square feet. Immediately water in after installation. Follow manufacturer's installation instructions.

3.0 Execution

- A. Plant Material Layout and Location:
- Prior to any installation, the Contractor must locate all plant materials using wooden lathe or flags. The Landscape Architect or the Owner's Representative will review and approve plant material locations.
- The Contractor must utilize J.U.L.I.E, the local municipality or the Owner's representative to locate all utilities prior to any excavation.

B. Planting Hole Excavation:

- The Contractor must excavate as necessary for installation of plant materials. Al rock, broken concrete and similar debris must be removed from planting holes and hauled from the site at mo additional expense to the Owner.
- 2. All excess soils generated from planting operations must be hauled from the site at no additional expense to the Owner.

Section 32 93 00 - Plants, continued

A. Planting Seasons:

3.01 Installation

- Deciduous Plants must be planted during the following dates: April 1st to June 1st and October 1st to December 15th.
- Evergreen Plants must be planted during the following dates: April 1st to May 15th and September 1st to October 1st
- The planting periods indicated may be extended due to weather conditions or other factors, which must be approved by the Landscape Architect.
- The Contractor will be relieved for his guarantee responsibility should the Owner require plant material installations to be completed during other times than the planting periods indicated.

- All shade trees, ornamental trees, evergreen trees, shrubs and perennials shall be planted in holes excavated at least twice the width of the diameter of the ball or container and deep enough so that the top of the ball or soil in the container is at or just above existing grade.
- Install Agriform fertilizer tablets in excavated holes after filling half way up the root ball. Follow manufacturer's Application Rates.
- All twine or rope must be cut and removed and the burlap folded away from the top of the ball. The excavation must be backfilled with the planting mixture and watered. Any settlement will be filled with planting mixture.
- 4. A 4 deep saucer, similar to the diameter of the planting hole shall be created using planting mix.
- 5. Groundcovers: All perennial and groundcover beds shall be tilled to a depth of six (6) inches. Three (3) inches of mushroom or similar compost must then be tilled into the soil and the planting bed raked smooth prior to planting.

C. Pruning:

All trees and shrubs shall be pruned to enhance the natural character of the plant, and to remove any broken or damaged branches.

D. Mulching

- All shade trees, ornamental trees, and evergreen trees shall be mulched. The mulch shall cover the planting area with a minimum of three (3) inches and not more than four (4) inches in depth. No mulch material may cover the trunk or plant stem.
- All massed plantings will be mulched with a minimum of three (3) inches and not more than four (4) inches of mulch. The entire bed shall be mulched under the plants. A spaded edge must be produced in the bed shape as indicated on the
- 3. Groundcover areas will not receive any mulch.

E. Pre-Emergence Herbicide Application:

Granular weed preventer will be applied after mulch installation in all planting beds at a rate of one (1) ounce per ten (10) square feet. Immediately water in after installation. Follow manufacturer's installation instructions.

Wrapping, Staking & Guying:

- All shade and single stem ornamental trees must be wrapped with burlap or an approved tree wrap from the based of the tree to the start of the first branches.
- 2. Evergreen trees 6' high and larger must be staked and guyed. Deciduous trees 4 caliper and larger must staked and guyed.
- When required, a three-point guying system shall be used consisting of galvanized wires, hose loops, turn buckles and wooden stakes. Other commercial staking and guying systems may be used if presented by the Contractor and approved by the Landscape Architect. All guy wires must have high visibility orange flagging and all stakes must be painted with high visibility

3.02 Maintenance, Clean-Up and Acceptance

orange paint.

- A. Maintenance of plant materials:
- Maintenance of plant materials will begin upon completion of the installation of the last plant material and will continue for a period of sixty (60) days. Maintenance periods that have not been completed by November 1st, will be completed the following year, beginning on May 1st.
- 2. During the maintenance period, the Contractor must water and straighten all
- The Owner will be responsible for all maintenance requirements after this

plants, as well as weed planting beds and tree rings.

required sixty (60) day period.

- All debris generated during the installation of plant materials must be removed from the site.
- All pavements and walks must be swept after each days work. Upon completion of the work, all pavements must be washed to removal mud or dirt.

Preliminary Acceptance:

G. Final Acceptance:

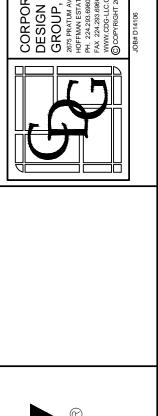
- 1. Upon completion of the installation of all plant materials, the Contractor must submit his request for an inspection to determine preliminary acceptance of the completed work. All such requests must be submitted to the Landscape Architect at least 10 (ten) days in advance.
- The Landscape Architect will review the work and determine whether the work should receive Final Acceptance. Should the Landscape Architect find conditions that are not acceptable, the Contractor will be notified in writing and will be required to make changes to correct the unacceptable condition.

Brusseau Design Group, LLC

Landscape Architecture # Land Planning # Recreational Planning & Design

Upon completion of the maintenance period the Contractor must submit his

request for final acceptance of the completed work. All such requests must be submitted to the Landscape Architect at least 10 (ten) days in advance.

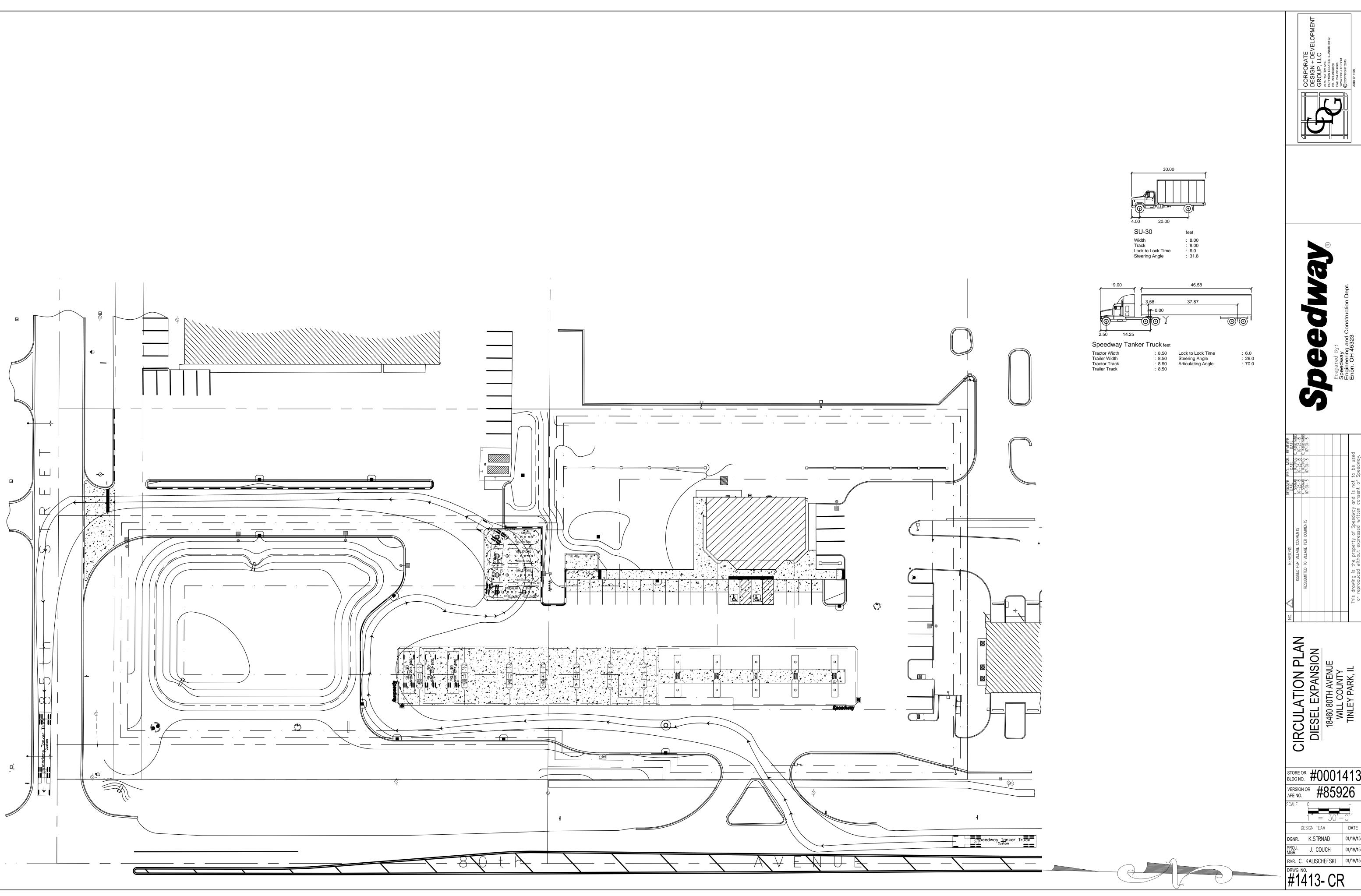


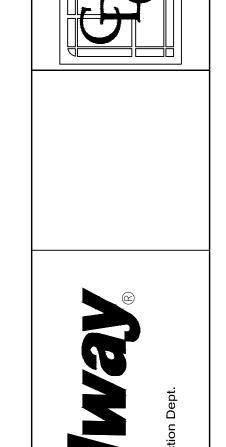


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DESIGN TEAM DGNR. K.STRNAD J. COUCH C. KALISCHEFSKI

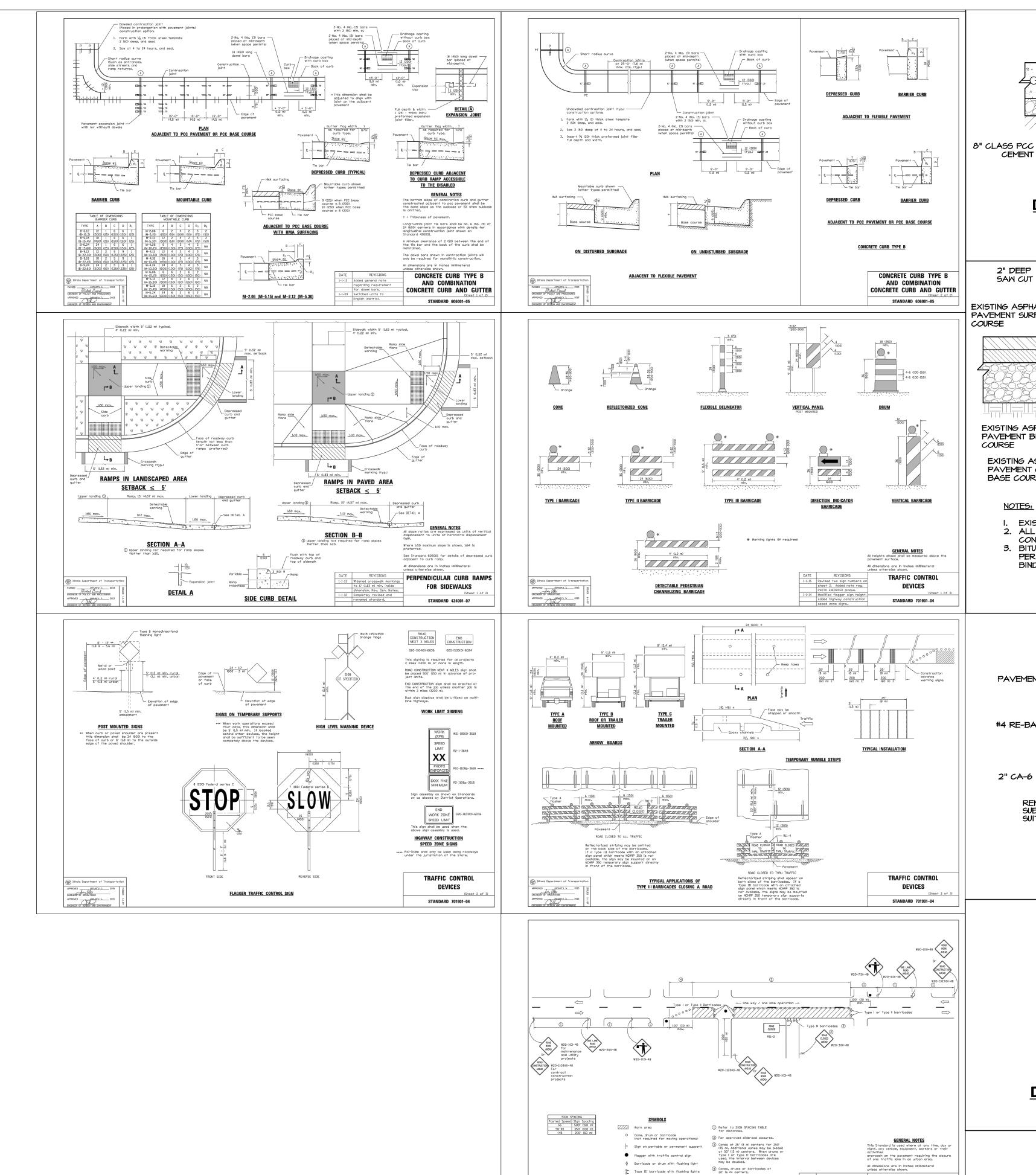
2675 Pratum Avenue, Hoffman Estates, IL 60192

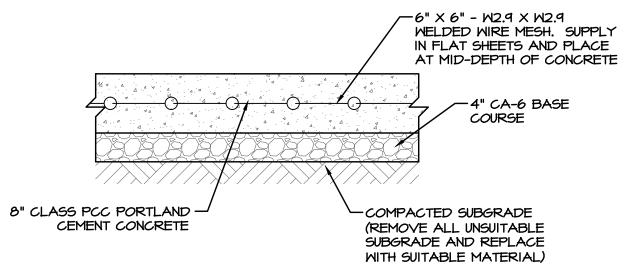




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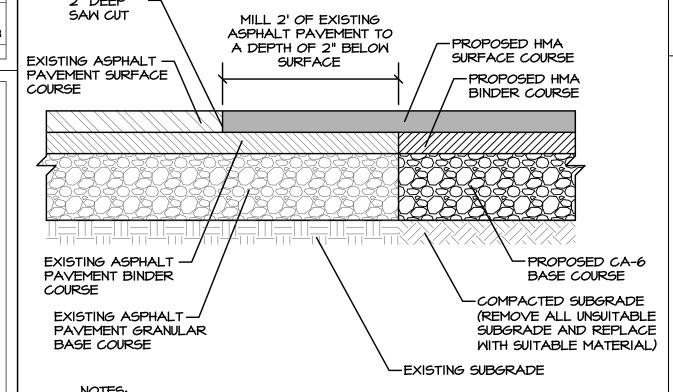
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DESIGN TEAM	DATE
GNR. K.STRNAD	01/19/15
ROJ. J. COUCH GR.	01/19/15
VR. C. KALISCHEFSKI	01/19/15





DETAIL - 8" CONCRETE DRIVEWAY ENTRANCE PAVEMENT

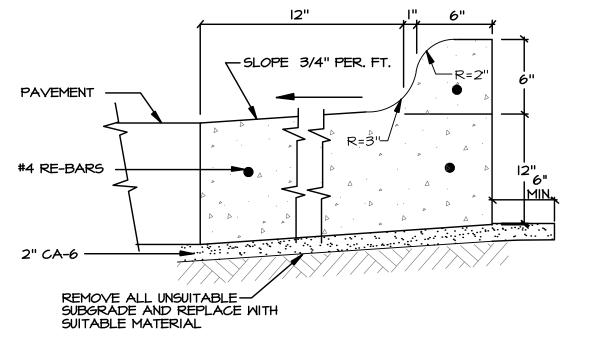
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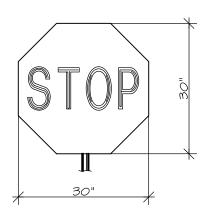
- I. EXISTING PAYEMENT SECTION IS SHOWN FOR REFERENCE ONLY. 2. ALL ASPHALT PAVEMENT MILLINGS SHALL BE DISPOSED OF BY THE
- CONTRACTOR. 3. BITUMINOUS TACK COAT SHALL BE APPLIED AT A RATE OF O.I GALLONS PER SQUARE YARD TO BOTH THE EXISTING AND PROPOSED ASPHALT BINDER COURSE PRIOR TO NEW HMA SURFACE COURSE INSTALLATION.

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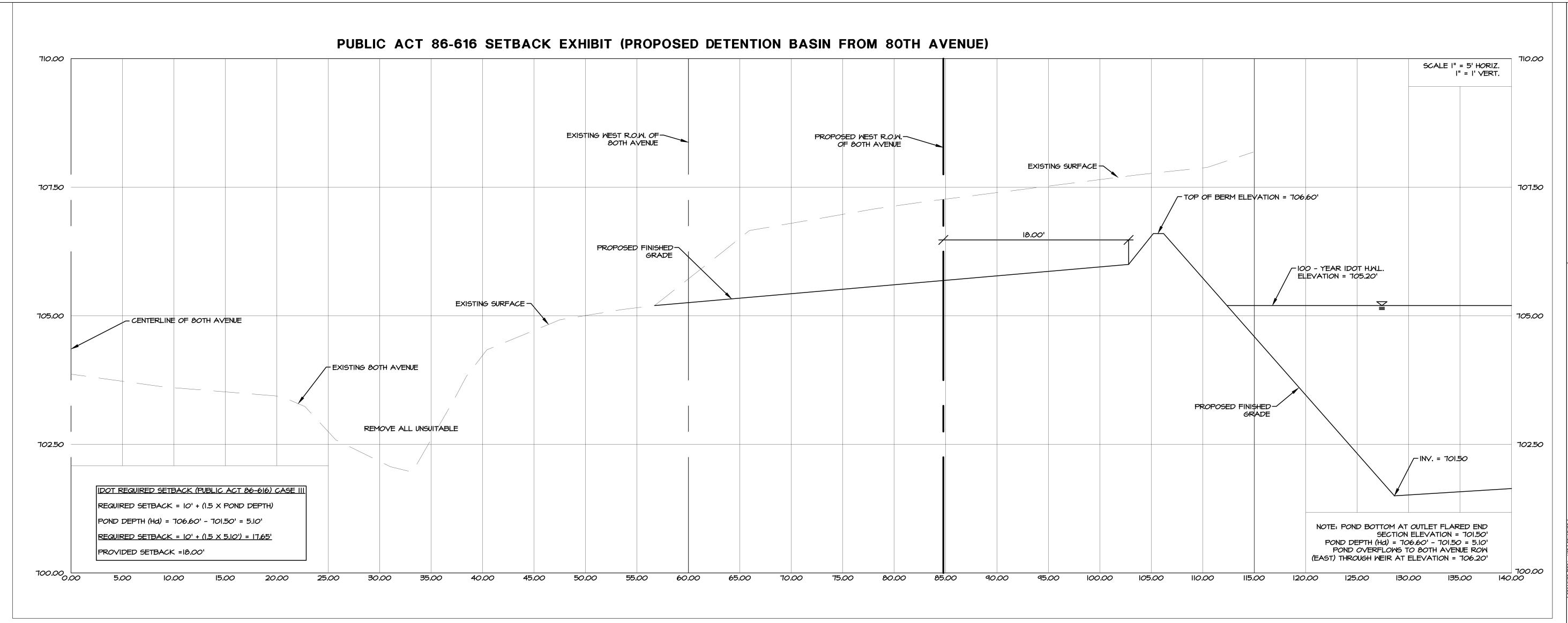
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IDOT DETAILS DIESEL EXPANSION

STORE OR 0001413 VERSION OR 85926

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DESIGN TEAM	DATE
DGNR. J. GLASCOTT	02/06/15
P.MGR.R. YOST	02/06/15
RVWR. T. ABRAMS	02/06/15
DRWG. NO.	
1413 IDO	T 1



W-T CIVIL ENGINEERING, LLC.

CIVIL AND STRUCTURAL ENGINEERS

2675 Pratum Avenue
Hoffman Estates, Illinois 60192
PH: (224) 293-6333 FAX: (224) 293-6444
www.wtengineering.com

Prepared By:
Speedway
Engineering and Construction Dept.
Enon, OH 45323

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1	SITE PLAN CHANGE	J. Glascott 04-6-2015	J. Hostasa	10
2	SITE PLAN CHANGE	J. Glascott 05-29-2015	J. Hostasa	5 –
3	FOR WILL COUNTY DOT SUBMITTAL	J. Glascott 07-1-2015	J. Hostasa	T 0
4	PER VILLAGE COMMENTS	J. Glascott 07-30-2015	J. Hostasa	T 07
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IDOT DETAILS

JIESEL EXPANSION
18460 80TH AVENUE
WILL COUNTY

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DESIGN TEAM	DATE						
DGNR. J. GLASCOTT 02/06/15							
P.MGR.R. YOST	02/06/15						
RVWR. T. ABRAMS	02/06/15						
DRWG. NO. 1413 IDOT2							

GENERAL NOTES

- I. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
- I.I. ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," AS ADOPTED JANUARY I, 2012 AND ALL SUBSEQUENT REVISIONS THERETO.
- I.2. "STANDARD SPECIFICATIONS FOR WATER AND SEMER CONSTRUCTION IN ILLINOIS" SIXTH EDITION, DATED JULY 2009 AND ALL SUBSEQUENT REVISIONS THERETO.
- I.3. "ILLINOIS URBAN MANUAL," LATEST EDITION.
- I.4. BUILDING CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES.
- I.5. UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, 29 CFR PART 1926, "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION."
- I.6. ILLINOIS DRAINAGE LAW.
- I.7. ILLINOIS ENVIRONMENTAL BARRIERS ACT.
- I.S. ILLINOIS ACCESSIBILITY CODE.
- I.9. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY REQUIREMENTS.
- I.IO. TITLE 35 OF THE ILLINOIS ADMINISTRATIVE CODE.
- 2. ALL REQUIRED PERMITS FROM THE APPROPRIATE GOVERNING AGENCY(S) SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE AND TO THE SATISFACTION OF THE GOVERNING AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNAGE AND TRAFFIC CONTROL DEVICES TO INFORM AND PROTECT THE PUBLIC.
- 3. CONTRACTOR SHALL NOTIFY THE LOCAL ENGINEERING OR PUBLIC WORKS DEPARTMENT AND/OR OTHER GOVERNING AUTHORITY(S) 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ON EACH MAJOR CATEGORY OF WORK, INCLUDING BUT NOT LIMITED TO, ANY PUBLIC IMPROVEMENTS, ROADWAY CLOSURES OR UTILITY INSTALLATIONS. 72 HOUR NOTICE SHALL BE GIVEN FOR ANY WORK ITEM THAT REQUIRES INSPECTION AND TESTING SUCH AS SANITARY SEWER OR WATER MAIN INSTALLATION. THE VILLAGE ENGINEER CAN BE REACHED AT 1-(847)-478-9700.
- 4. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. CONTRACTOR SHALL CALL THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E.) AT I-800-892-0123 OR BY DIALING 811. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES STAKED PRIOR TO CONSTRUCTION.
- 5. CONTRACTOR SHALL POST A CERTIFICATE OF INSURANCE (COI). COI SHOULD LIST THE VILLAGE OF LAKE BARRINGTON AND ITS AGENTS, AND GEWALT HAMILTON ASSOCIATES, INC, AND THEIR EMPLOYEES AS ADDITIONAL INSURED.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER.
- 7. ALL EASEMENTS FOR EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS PREPARED BY THE ENGINEER ACCORDING TO INFORMATION AVAILABLE FROM PUBLIC RECORDS OR VISIBLE FIELD MARKINGS. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND FOR THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THE CONFLICT MAY BE RESOLVED.
- 8. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS AND TO THE SATISFACTION OF THE APPLICABLE UTILITY OWNER(S).
- 9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.
- IO. ALL PROPERTY MARKERS AND REFERENCE MARKERS SHALL BE CAREFULLY PRESERVED DURING CONSTRUCTION UNTIL THEIR LOCATION HAS BEEN WITNESSED OR OTHERWISE TIED IN BY AN AUTHORIZED AGENT OR PROFESSIONALLY LICENSED SURVEYOR.
- II. THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE PROVIDED WHERE CONSTRUCTION OPERATIONS ABUT PUBLIC THROUGH-FARES AND ADJACENT PROPERTY.
- 12. ALL AREAS DISTURBED BY THE GENERAL CONTRACTOR OR SUB-CONTRACTORS SHALL BE RETURNED TO THE ORIGINAL CONDITIONS OR BETTER, EXCEPT WHERE PROPOSED CONSTRUCTION IS INDICATED ON THE
- 13. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
- 14. PRIOR TO INITIAL ACCEPTANCE BY THE OWNER(S) AND/OR GOVERNING AUTHORITY, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER AND MUNICIPALITY ENGINEER OR HIS REPRESENTATIVE(S). THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF 18 (EIGHTEEN) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 16. CONTRACTOR SHALL KEEP THE PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS AT THE END OF EACH WORKING DAY.
- 17. ALL CONSTRUCTION STAKING, SCHEDULING AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 18. CONTRACTOR SHALL NOTE THAT VILLAGE ENGINEER MUST BE PRESENT TO WITNESS AND APPROVE SUBGRADE AND SUBBASE PROOFROLLS. EACH PROOFROLL SHALL BE COMPLETED WITH A LOADED SIX-WHEELER (25 TONS MINIMUM).
- 19. THREE (3) ORIGINAL COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR (BUT NOT LIMITED TO) THE FOLLOWING ITEMS:
- I9.I. ASPHALT PAVEMENT MIX DESIGN
 I9.2. CONCRETE MIX DESIGN

- 19.3. GRANULAR MATERIAL GRADATION
- 19.4. PRECAST CONCRETE STRUCTURES (MANHOLES, INLETS, CATCH BASINS, VAULTS, ETC.)
- 19.5. WATER MAIN MATERIALS (VALVES, FIRE HYDRANTS, ETC.)
- 20. AFTER COMPLETION OF THE PROPOSED IMPROVEMENTS AND WHEN REQUIRED BY THE GOVERNING AUTHORITY(S), CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AS-BUILT AND/OR RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONALLY LICENSED ENGINEER OR SURVEYOR AND SHALL INCLUDE AT A MINIMUM (WHERE APPLICABLE TO THE SCOPE OF WORK) THE FOLLOWING ITEMS:
- 20.1. TOPOGRAPHY AND SPOT GRADE ELEVATIONS OF ALL PROPOSED PERMANENT SITE FEATURES INCLUDING ANY STORM WATER FACILITIES OR MODIFICATIONS TO EXISTING STORM WATER FACILITIES.
- 20.2. HORIZONTAL AND VERTICAL LOCATION AND ALIGNMENT OF ALL PROPOSED ROADWAYS, PARKING LOTS, UTILITIES, BUILDINGS OR OTHER PERMANENT SITE FEATURES.
- 20.3. RIM AND INVERT AND/OR TOP OF PIPE ELEVATIONS FOR ALL
- PROPOSED UTILITIES.

 20.4. AS-BUILT AND/OR RECORD DRAWING INFORMATION SHALL BE SHOWN ON THE APPROVED ENGINEERING PLANS ISSUED FOR CONSTRUCTION. ANY AND ALL DEVIATIONS FROM THESE APPROVED PLANS SHALL BE SHOWN BY MEANS OF STRIKING THROUGH THE PROPOSED INFORMATION AND CLEARLY INDICATING THE AS-BUILT LOCATIONS AND ELEVATIONS ON THE APPLICABLE PLAN SHEET. ALL SEED TAGS MUST BE SAVED AND SUBMITTED WITH THE RECORD DRAWINGS.

SITE GRADING AND PAVING

- I. ALL SITE WORK, GRADING, AND PAVING OPERATIONS WITHIN THE LIMITS OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," AS ADOPTED JANUARY I, 2012 AND ALL SUBSEQUENT REVISIONS THERETO ("STANDARD SPECIFICATIONS"), ANY SPECIAL PROVISIONS, THE NOTES IN THE PLANS AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 200 OF THE "STANDARD SPECIFICATIONS." ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE OR AS DIRECTED BY THE PROJECT REPRESENTATIVE IN THE FIELD.
- 3. EXCAVATED TOPSOIL SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE PROJECT ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING. UNLESS OTHERWISE NOTED ON THE PLANS, A MINIMUM OF 6" TOPSOIL RE-SPREAD AND SEEDING FOR ALL DISTURBED AREAS IS REQUIRED.
- I. THE SOILS INVESTIGATION REPORT FOR THE SITE AND ALL ADDENDA THERETO ARE SUPPORTING DOCUMENTS FOR THIS PROJECT. THE RECOMMENDATIONS AS STATED IN SAID REPORT ARE HEREBY INCORPORATED INTO THESE CONSTRUCTION NOTES BY REFERENCE AND SHALL BE FOLLOWED BY ALL CONTRACTORS. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY A SOILS ENGINEER OR HIS REPRESENTATIVE. FURTHER CONSTRUCTION OPERATIONS WILL NOT BE PERMITTED UNTIL THE SOILS ENGINEER ISSUES A WRITTEN STATEMENT THAT THE AREA IN QUESTION HAS BEEN SATISFACTORILY PREPARED AND IS READY FOR CONSTRUCTION.
- ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS, AND BUSHES WHICH ARE NOT NOTED TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT HIS OWN EXPENSE.
- REMOVED DRIVEWAY PAVEMENT, SIDEWALK, CURBS, TREES AND STUMPS SHALL BE DISPOSED OF LEGALLY OFF-SITE AT LOCATIONS DETERMINED BY THE CONTRACTOR.
- ON AND OFF SITE PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
- O. PROPOSED ELEVATIONS INDICATE FINISHED GRADE CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE THICKNESS OF THE PROPOSED PAVING (ROADS, WALKS, DRIVE, ETC.) SECTION OR TOPSOIL AS INDICATED ON THE PLANS.
- I. CONTRACTOR SHALL PROVIDE SMOOTH VERTICAL CURVES THROUGH THE HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS ON THE PLANS, CONTRACTOR SHALL PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID ANY RIDGES AND/OR DEPRESSIONS.
- 12. ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
- 3. ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED GRADE WITHIN THE PROJECT LIMITS.
- 14. ALL CONCRETE POURED SHALL BE:
- I4.I. MINIMUM COMPRESSIVE STRENGTH:
 I4.I.I. 3,500 P.S.I. AT I4 DAYS (PER I.D.O.T.)
 I4.I.2. 4,500 P.S.I. AT 28 DAYS (PER A.C.I.)
- 14.2. MAX WATER-CEMENTITIOUS MATERIALS RATIO: 0.44 (AIR-ENTRAINED)
- 14.3. AIR CONTENT: 6%, +/- 1.5% AT POINT OF DELIVERY FOR EXPOSED
- 15. THE GRADING AND CONSTRUCTION OF THE PROPOSED PAVEMENT IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE AND MATCH EXISTING GRADES FLUSH.
- . CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.
- 7. DRIVEWAYS SHALL BE CONSTRUCTED SO AS NOT TO IMPEDE THE SURFACE DRAINAGE SYSTEM.
- 18. TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARDS AND SHALL BE INSTALLED AND PROVIDED WHENEVER CONSTRUCTION FOR UTILITIES ARE WITHIN STREET AREAS. APPLICABLE ORDINANCES OF THE MUNICIPALITY, COUNTY OR STATE SHALL ALSO GOVERN THE TRAFFIC CONTROL REQUIREMENTS.

SANITARY SEWERS

- I. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," SIXTH EDITION, DATED JULY, 2009, AND ALL SUBSEQUENT REVISIONS THERETO ("STANDARD SPECIFICATIONS"), ANY SPECIAL PROVISIONS, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- ALL SANITARY SEMER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DIVISION III OF THE "STANDARD SPECIFICATIONS."
- 3. ALL SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 PIPE PER ASTM D-3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212, UNLESS OTHERWISE NOTED.
- 3.I. WHERE SANITARY SEMER PIPE IS NOTED AS PVC C-900, THE PIPE SHALL BE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) C-900 WITH WATERTIGHT, PRESSURE RATED JOINTS CONFORMING TO ASTM D-3139.
- 4. SANITARY SEWER CONSTRUCTION SHALL COMMENCE AT THE EXISTING MANHOLE(S) AND/OR CONNECTION POINT(S) INDICATED ON THE PLANS.
- 4.I. A WATERTIGHT PLUG SHALL BE INSTALLED AND LEFT IN PLACE AT THE POINT OF COMMENCEMENT UNTIL THE REMAINDER OF THE PROPOSED SEWERS HAVE BEEN CONSTRUCTED, PROPERLY TESTED AND DEEMED READY FOR FINAL ACCEPTANCE.
- 5. ALL SANITARY SEMER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF DIVISION II OF THE "STANDARD SPECIFICATIONS."
- 5.I. ALL SANITARY SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D-2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING IDOT GRADATION CA-7.
- 5.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY, PER ASTM D-1557, OVER ALL SANITARY SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN A 1:1 SLOPE OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
- 6. THE CONTRACTOR IS REQUIRED TO RECORD THE LOCATION OF ALL SEMERS AND FURNISH THE INFORMATION TO THE PROJECT ENGINEER AND/OR OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL LOCATE ALL SEMERS BY MEASUREMENTS TO LOT CORNERS OR OTHER PERMANENT SITE FEATURE AND SHALL FURNISH A COPY OF SUCH LOCATIONS TO THE PROJECT ENGINEER AND/OR OWNER'S REPRESENTATIVE UPON PORJECT COMPLETION. THIS INFORMATION SHALL ALSO INCLUDE THE DEPTH OF EACH SEMER. IF THE CONTRACTOR FAILS TO PROPERLY LOCATE ANY SEMER, HE SHALL BE RESPONSIBLE FOR ALL COSTS WHICH ARE INCURRED AS A RESULT OF THE IMPROPERLY LOCATED UTILITIES.
- 7. ALL SANITARY SEMER MANHOLES SHALL BE PRECAST CONCRETE AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF DIVISION III, SECTION 32 OF THE "STANDARD SPECIFICATIONS" AND THE DETAILS IN THE PLANS.
- 7.I. A FLEXIBLE TYPE JOINT SHALL BE FURNISHED AT POINTS OF ENTRY INTO AND EXITING FROM MANHOLE STRUCTURES AND SHALL BE OF A DESIGN APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THIS FLEXIBLE JOINT MAY CONSIST OF A SLEEVE OF HIGH QUALITY SYNTHETIC RUBBER WITH A SUBSTANTIAL SERRATED FLANGE WHICH IS CAST DIRECTLY INTO THE WALL OF THE MANHOLE BASE TO FORM A WATERTIGHT SEAL AND PROTRUDES OUTSIDE OF THE MANHOLE WALL TO CONNECT WITH THE PIPE ENTERING/EXITING THE MANHOLE. WHEN THIS TYPE OF FLEXIBLE JOINT IS USED, THE SLEEVE SHALL SLIP OVER THE END OF THE PIPE ADJACENT TO THE MANHOLE BASE AND SHALL BE SECURED BY MEANS OF A STAINLESS STEEL STRAP CLAMP EQUIPPED WITH A DRAW BOLT AND NUT.
- 8. ALL REQUIRED MANHOLE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
- 9. AFTER FINAL ADJUSTMENTS HAVE BEEN MADE, ALL JOINTS IN PRECAST STRUCTURES SHALL BE MORTARED. THE MORTAR SHALL BE COMPOSED OF ONE (I) PART CEMENT TO THREE (3) PARTS SAND, BY VOLUME, BASED ON DRY MATERIALS, AND SHALL BE THOROUGHLY WETTED BEFORE LAYING.
- O. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR MANHOLE, THE FOLLOWING METHOD SHALL BE USED:
- IO.I. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ('SEWER-TAP' MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
- II. ALL FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEMER. ALL FOOTING DRAINS AND DOWNSPOUTS SHALL DISCHARGE ONTO THE GROUND OR INTO THE STORM SEMER SYSTEM AS INDICATED ON THE DRAWINGS.
- 12. UPON COMPLETION OF THE SANITARY SEWER CONSTRUCTION, INCLUDING THE SERVICE LINES, ALL SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTIONS 31-1.12 AND 31-1.13 OF THE "STANDARD SPECIFICATIONS" AND WITNESSED BY THE LOCAL GOVERNING AUTHORITY OR AUTHORIZED REPRESENTATIVE.
- 13. ALL PRESSURE RATED SANITARY SEWERS SHALL COMPLY WITH ASTM D2241

WATER MAINS

- I. ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," SIXTH EDITION, DATED JULY, 2009 AND ALL SUBSEQUENT REVISIONS THERETO ("STANDARD SPECIFICATIONS"), ANY SPECIAL PROVISIONS, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. ALL WATER MAIN PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DIVISION IV OF THE "STANDARD SPECIFICATIONS."
- 3. ALL WATER MAIN SHALL BE DUCTILE IRON PIPE, CLASS 52 IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS C-151, C-111 AND C-104, UNLESS OTHERWISE NOTED.
- 4. UNLESS OTHERWISE NOTED ON THE PLANS, ALL WATER MAIN PIPE SHALL BE LAID WITH A MINIMUM COVER OF 5-1/2 FEET FROM THE PROPOSED FINISH GRADE INDICATED ON THE PLANS OR TO THE SPECIFIC TOP OF PIPE ELEVATION INDICATED ON THE PLANS FOR THE WATER MAIN. NO BERMS ARE ALLOWED OVER WATER MAINS EXCLUSIVELY FOR THE PURPOSE OF OBTAINING ADEQUATE GROUND COVER.
- 5. ALL DUCTILE IRON WATER MAIN PIPE SHALL BE CONSTRUCTED WITH A MINIMUM OF 8-MIL POLYETHYLENE ENCASEMENT TO PREVENT CORROSION.
- 6. ALL WATER MAIN TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF DIVISION II OF THE "STANDARD SPECIFICATIONS."
- 6.I. ALL WATER MAINS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING IDOT GRADATION CA-7.
- 6.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY, PER ASTM D-1557, OVER ALL WATER MAINS WHICH ARE CONSTRUCTED UNDER, OR WITHIN A 1:1 SLOPE OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
- 7. A WATERTIGHT PLUG SHALL BE PLACED IN THE END OF THE WATER MAIN PIPE AT THE END OF EACH CONSTRUCTION DAY.
- 8. UPON COMPLETION OF THE WATERMAIN CONSTRUCTION, ALL WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS:
- 8.I. HYDROSTATIC PRESSURE AND LEAKAGE TESTS IN ACCORDANCE WITH SECTION 41-2.14 OF THE "STANDARD SPECIFICATIONS" AND WITNESSED BY THE LOCAL GOVERNING AUTHORITY.
- 8.2. DISINFECTION IN ACCORDANCE WITH SECTION 41-2.15 OF THE "STANDARD SPECIFICATIONS" AND THE METHODS STATED IN AWMA STANDARD C651 AND WITNESSED BY THE LOCAL GOVERNING AUTHORITY.

WATER SERVICES AND CONNECTIONS

- I. ALL WATER SERVICE PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DIVISION IV OF THE "STANDARD SPECIFICATIONS."
- 2. ALL WATER SERVICE LINES 2" IN DIAMETER OR SMALLER SHALL BE TYPE 'K' COPPER TUBING CONFORMING TO ASTM B-88-58. NO COUPLINGS SHALL BE PERMITTED BETWEEN THE CORPORATION AND CURB STOPS OR BETWEEN THE CURB STOP AND THE BUILDING.
- 3. ALL WATER SERVICE FITTINGS INCLUDING CORPORATION STOPS, SERVICE BOXES AND BUFFALO BOXES SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
- 4. SERVICE BOXES SHALL BE OF SUFFICIENT LENGTH TO PERMIT THE TOP TO BE INSTALLED FLUSH WITH THE FINISHED GRADE. EACH SERVICE BOX SHALL BE PROVIDED WITH A CAP WITH THE WORD "WATER" CAST IN THE TOP.
- 5. ALL VALVES, VALVE BOXES OR VAULTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF DIVISION IV, SECTION 44 OF "THE STANDARD SPECIFICATIONS."
- 6. VALVES SHALL BE AMERICAN FLOW CONTROL SERIES 2500 DUCTILE IRON RESILIENT SEAT EPOXY COATED WEDGE VALVES OR APPROVED EQUAL.
- 7. ALL PRESSURE CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 46 OF THE "STANDARD SPECIFICATIONS" AND SHALL INCLUDE THE INSTALLATION OF A FULL STAINLESS STEEL TAPPING SADDLE.
- 8. ALL VALVES SHALL BE INSTALLED IN VALVE VAULTS HAVING A MINIMUM DIAMETER OF FIVE (5) FEET BELOW THE PRECAST CONCRETE CONE SECTION. THE VAULTS SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS AND SHALL CONFORM TO THE DETAILS SPECIFIED ON THE PLANS. ALL VALVE VAULTS SHALL BE LEAK PROOF.
- 9. ALL TEMPORARY CONNECTIONS FOR CONSTRUCTION PURPOSES TO NEWLY INSTALLED OR EXISTING WATER MAINS SHALL BE MADE AND METERED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- IO. ALL REQUIRED RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.

STORM SEWERS

- . ALL STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," SIXTH EDITION, DATED JULY, 2009 AND ALL SUBSEQUENT REVISIONS THERETO ("STANDARD SPECIFICATIONS"), THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," AS ADOPTED JANUARY I, 2007 AND ALL SUBSEQUENT REVISIONS THERETO ("IDOT STANDARD SPECIFICATIONS"), ANY SPECIAL PROVISIONS, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. ALL STORM SEMER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DIVISION V OF THE "STANDARD SPECIFICATIONS" AND SECTION 602 OF THE "IDOT STANDARD SPECIFICATIONS."
- 3. ALL RCP STORM SEWER PIPE 12" IN DIAMETER AND LARGER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 31-1.08 OF THE "STANDARD SPECIFICATIONS." ALL IO" DIAMETER RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS V
- 4. ALL HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F-2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212.
- 5. ALL PVC STORM SEWER PIPE SHALL BE POLYVINYL CHLORIDE SDR 26
 PIPE PER ASTM D-3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM
 D-3212, UNLESS OTHERWISE NOTED.
- 6. ALL STORM SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF DIVISION II OF THE "STANDARD SPECIFICATIONS."
- 6.I. ALL STORM SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D-2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING IDOT GRADATION CA-7.
- 6.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY, PER ASTM D-1557, OVER ALL STORM SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN A 1:1 SLOPE OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
- . ALL REQUIRED STORM STRUCTURE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
- 6. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM 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 DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AND/OR ENGINEER UPON COMPLETION OF THE PROJECT AND ACCURATELY SHOWN ON THE RECORD DRAWINGS.

WATER MAINS AND SEWERS VERTICAL SEPARATION REQUIREMENTS

- I. WATER MAINS SHALL BE SEPARATED FROM A SEMER SO THAT ITS INVERT IS A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEMER WHENEVER WATER MAINS CROSS STORM SEMERS, SANITARY SEMERS, OR SEMER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEMER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEMER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEMER OR DRAIN.
- 2. BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:
- 2.I. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN I ABOVE; OR
- 2.2. THE WATER MAIN PASSES UNDER A SEWER OR DRAIN
- 3. A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. THE SEWER OR DRAIN LINES SHALL BE SUPPORTED TO PREVENT SETTLING AND BREAKING OF THE WATER MAIN, AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.
- 4. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (IO) FEET.

WATER MAINS AND SEWERS HORIZONTAL SEPARATION REQUIREMENTS

- WATER MAINS SHALL BE LOCATED AT LEAST TEN (IO) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER, OR SEWER SERVICE CONNECTION.
- 2. WATER MAINS MAY BE LOCATED CLOSER THAN TEN (IO) FEET TO A SEWER LINE WHEN:
- 2.I. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (IO) FEET; AND
- 2.2. THE WATER MAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER; AND
- 2.3. THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
- 3. WHEN IT IS IMPOSSIBLE TO MEET I) OR 2) ABOVE, BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED FOR THE MAXIMUM EXPECTED SURCHARGE HEAD PRIOR TO BACKFILLING.

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Prepared By:
Speedway
Engineering and Construction Dept.
Enon, OH 45323

| NO | ■ | PEVISIONS | DESIGNER | PROJ. MGR. REVIEW | DATE | DAT

SPECIFICATIONS

SEL EXPANSION

18460 80TH AVENUE

STORE OR 0001413

VERSION OR 85926

SCALE ONOT TO SCALE

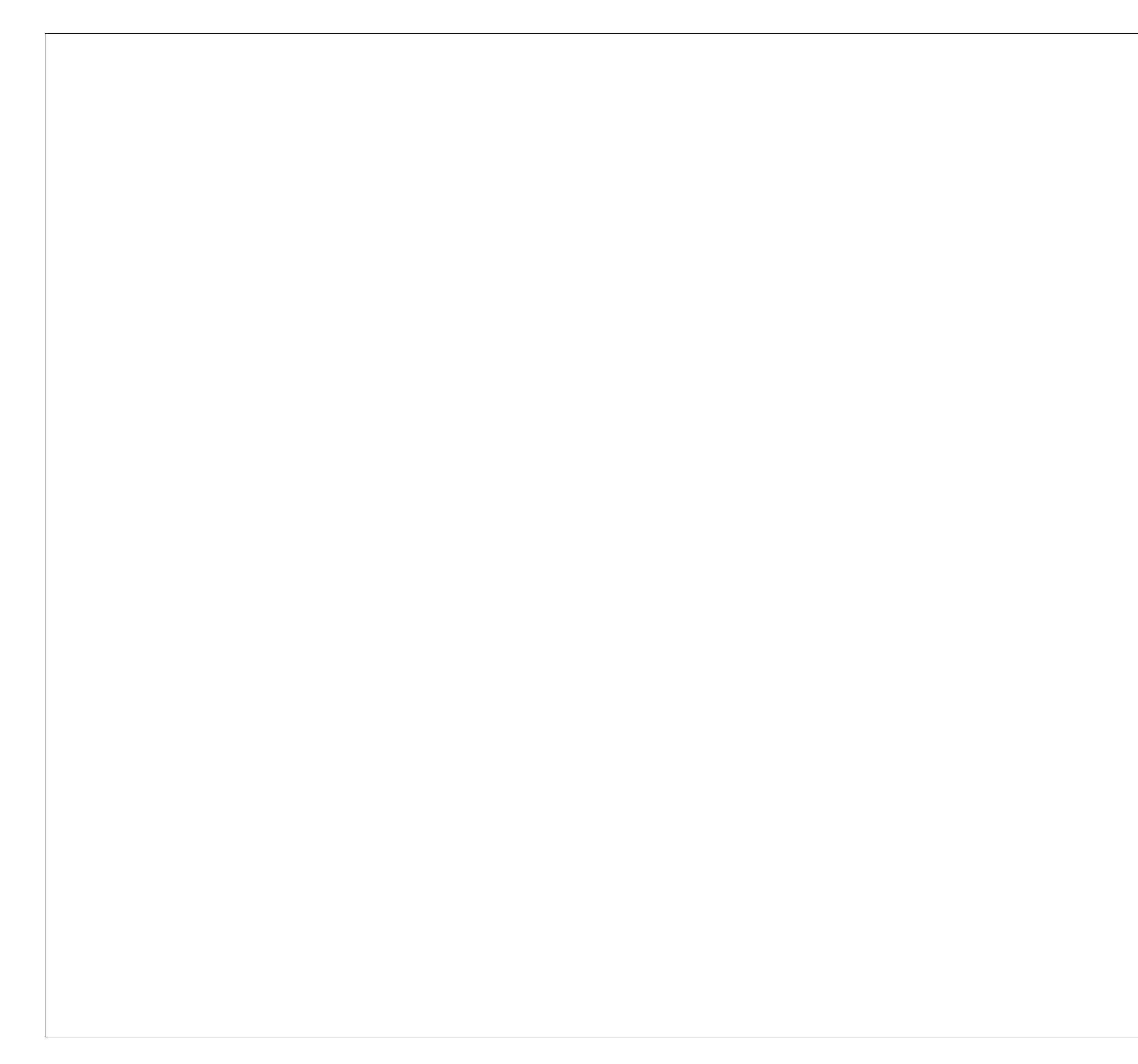
DESIGN TEAM DATE

DGNR. J. GLASCOTT 02/06/15

P.MGR.R. YOST 02/06/15

RVWR. T. ABRAMS 02/06/15

DRWG. NO. 1413 IDOT3



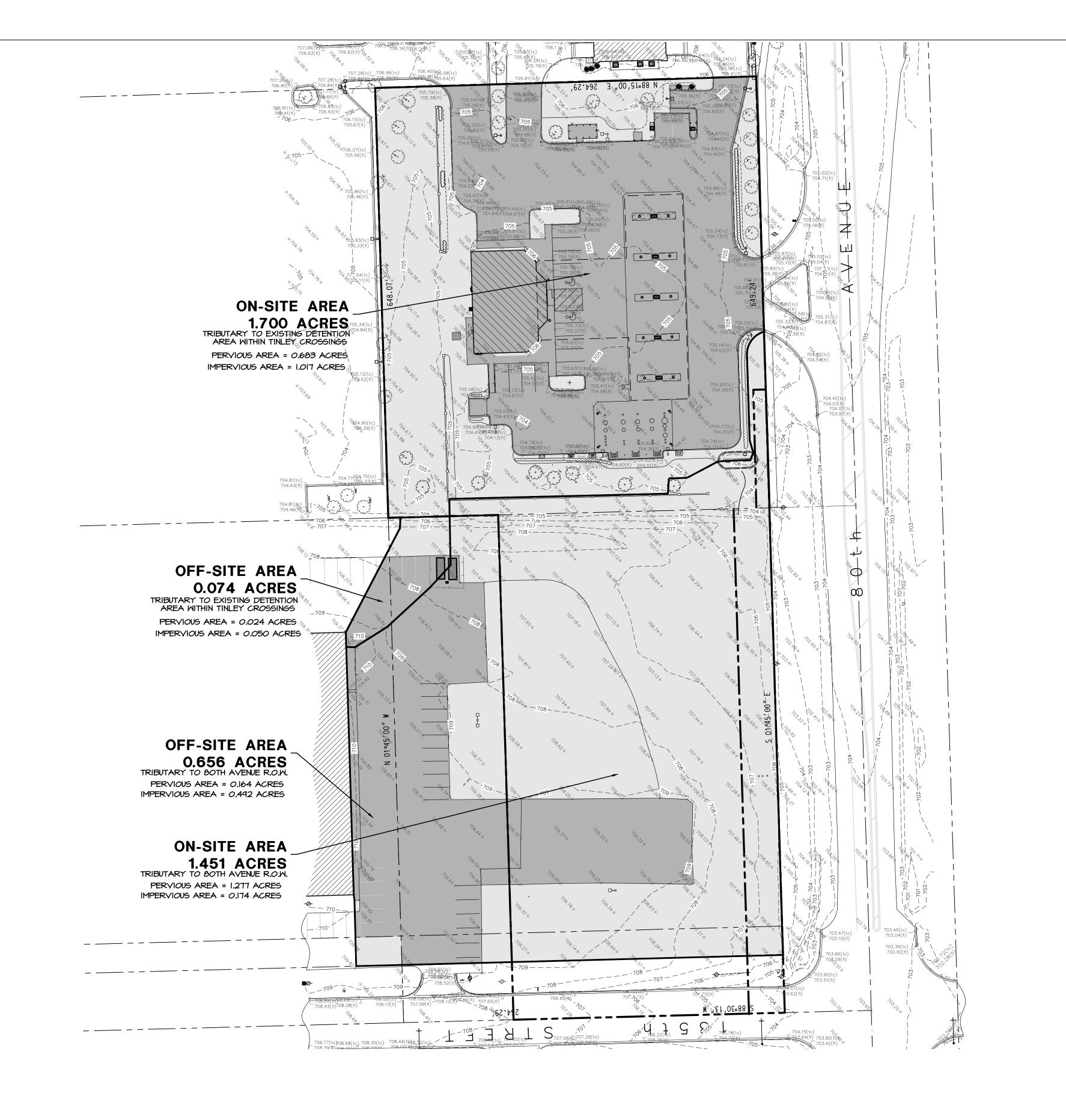
MWRD General Notes

- 1. The MWRD Local Sewer Systems Section Field Office must be notified at least two (2) working days prior to the commencement of any work. The Field Office phone number is 708-588-4055.
- 2. Elevation datum is _____ Conversion equation ____
- 3. The MWRD considers 0:00 Chicago City Datum (CCD) to be 579 48 MSL 1929 Adjustment.
- 4. All floor drains shall discharge to the sanitary sewer.
- 5. All downspouts and footing drains shall discharge to the storm sewer system.
- 6. All sanitary sewer construction (and storm sewer construction in combined sewer areas), requires stone bedding with stone ¼ inch to 1 inch in size, with minimum bedding thickness equal 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches nor more than eight (8) inches. Material shall be IDOT gradation CA-11 or CA-13 and shall be extended at least 12 inches above the top of the pipe when PVC pipe is used. Ductile iron does require stone bedding. If a concrete cradle or encasement is provided, bedding can be
- 7. A non-shear mission coupling shall be used for the connection of sewer pipes of dissimilar
- 8. When connecting to an existing sewer main by other than an existing wye, fee or an existing manhole, one of the following methods shall be used:
- Using a circular coring machine, core drill an opening into the existing pipe and install a saddle or prefabricated tee
- Remove an entire section of the pipe breaking only the top of one bell and replace with a wye or tee branch section.
- With a pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using a non-shear mission coupling to hold it firmly on place.
- 9. Whenever a sanitary/combined sewer crosses under a water main, the minimum vertical distance from the top of the sewer to the bottom of the water main shall be 18 inches. Furthermore, a minimum horizontal distance of 10 feet between sanitary/combined sewers and water mains shall be maintained unless: the sewer is laid in a separate trench, keeping a minimum 18-inch vertical separation, or the sewer is laid in the same trench with the water main located on the opposite side on a bench of undisturbed earth, keeping a minimum 18-inch vertical separation. If either the vertical or horizontal distances described above cannot be maintained, or the sewer crosses above the water main, the sewer shall
- 10. All existing septic systems shall be abandoned. Abandoned tanks shall be filled with acceptable granular material and shall have their ends plugged with grout, or they shall be removed.
- 11. All sanitary manholes and storm manholes in combined sewer areas shall have a minimum inside diameter of 48 inches and shall be cast in place concrete or pre-cast reinforced concrete.
- 12. Footing Drains. Except for foundation/footing drains provided to protect buildings and for underdrains serving green infrastructure, drain tiles, field tiles, underdrains, and perforated pipes are not allowed to be connected to or tributary to combined sewers, sanitary sewers, or storm sewers tributary to combined sewers in combined sewer areas. Construction of new facilities of this type is prohibited; and all existing drain tiles and perforated pipes, other than those serving green infrastructure, encountered within the project area shall be plugged or removed, and shall not be connected to combined sewers, sanitary sewers, or storm sewers tributary to combined sewers.

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	2	SITE PLAN CHANGE	J. Glascott 05-29-2015	J. Hostasa	- 30
	3	FOR WILL COUNTY DOT SUBMITTAL	J. Glascott 07-1-2015	J. Hostasa	_ 0
	4	PER VILLAGE COMMENTS	J. Glascott 07-30-2015	J. Hostasa	0.0
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DES	IGN TEAM	DATE
DGNR.	J. GLASCOTT	02/06/15
P.MGR.F	R. YOST	02/06/15
RVWR. 7	• ABRAMS	02/06/15
DRWG.	413 IDO	T4



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CIVIL AND STRUCTURAL ENGIN

Prepared By:
Speedway
Engineering and Construction Dept.

SITE PLAN CHANGE SITE PLAN CHANGE SITE PLAN CHANGE FOR WILL COUNTY DOT SUBMITTAL PER WILLAGE COMMENTS	DESIGNER PROJ. MGR. REVIEWER DATE DATE DATE	J. Glascott J. Hostasa (14–6–2015	J. Glascott J. Hostasa 05–29–2015	J. Glascott J. Hostasa 07=1=2015	J. Glascott J. Hostasa 07–30–2015		
	4	SITE PLAN CHANGE	NTE PLAN CHANGE	OR WILL COUNTY DOT SUBMITTAL	PER VILLAGE COMMENTS		

EXISTING CONDITIONS EXHIBIT 2

DIESEL EXPANSION 4

18460 80TH AVENUE

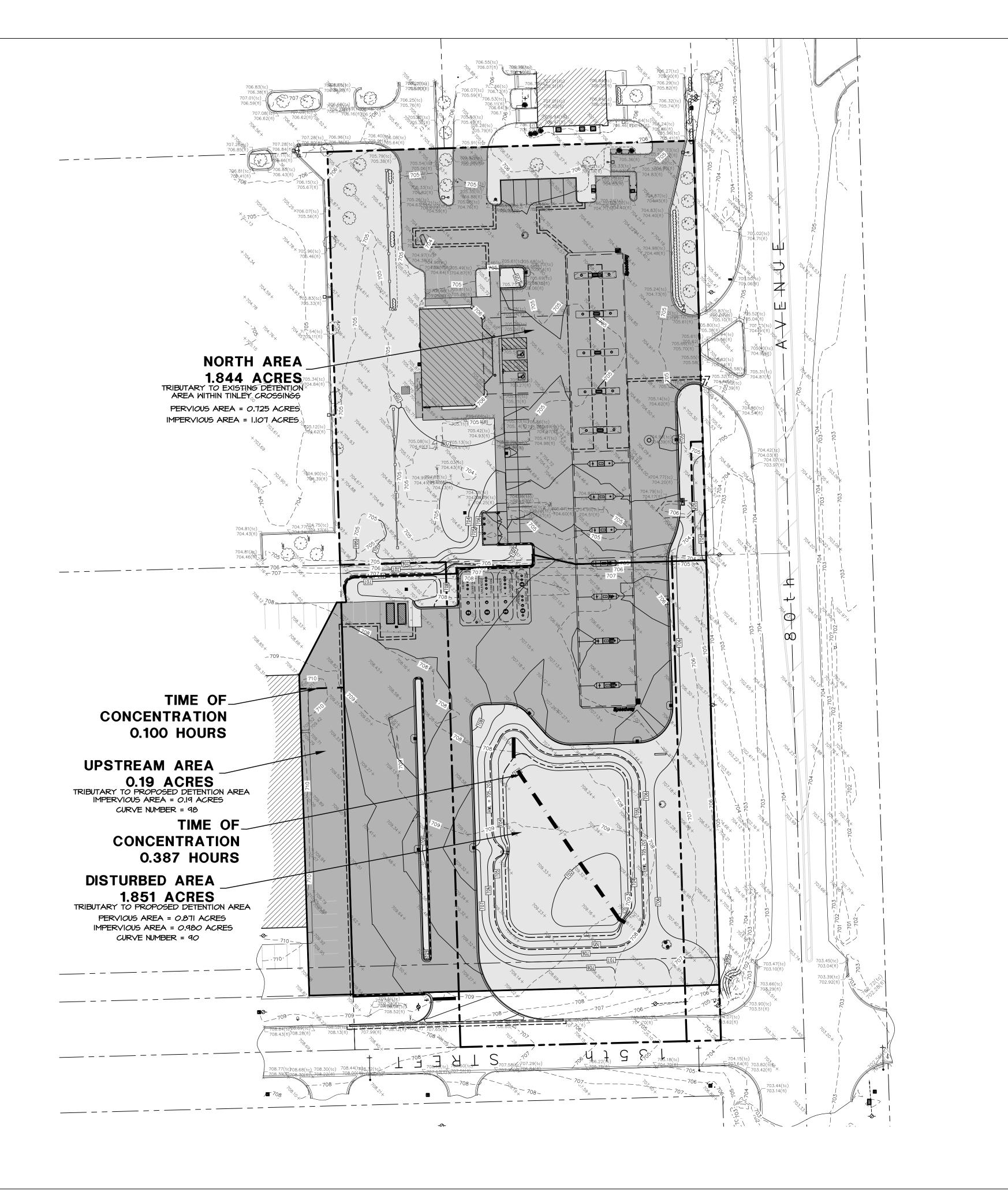
WILL COUNTY

TINLEY PARK, IL

STORE OR 0001413

VERSION OR 85926

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REVISIONS SITE PLAN CHANGE SITE PLAN CHANGE FOR WILL COUNTY DOT SUBMITTAL PER VILLAGE COMMENTS This drawing is the property of Speedway and is not or reproduced without expressed written consent of
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PROPOSED CONDITIONS EXHIBIT 1/2 BROPOSEL EXPANSION 1/460 80TH AVENUE WILL COUNTY TINLEY PARK, IL

STORE OR BLDG NO. 0001413

VERSION OR 85926 DESIGN TEAM DGNR. J. GLASCOTT 02/06/15

P.MGR.R. YOST RVWR. T. ABRAMS 1413 EX-2



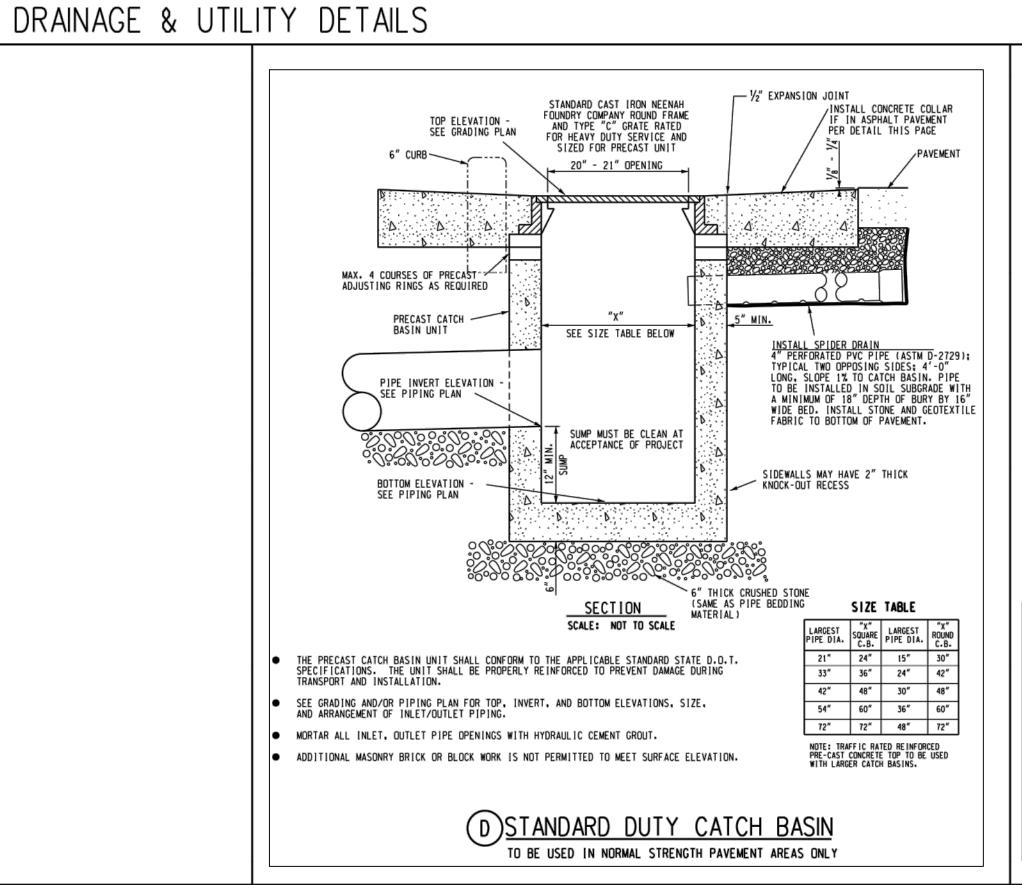
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TOP ELEVATION -INSTALL CONCRETE COLLAR PER DETAIL THIS PAGE IF IN ASPHALT PAVEMENT STANDARD CAST IRON NEENAH FOUNDRY COMPANY RATED FOR HEAVY DUTY SERVICE FRAME AND COVER MUST BE MARKED APPROPRIATELY AS SANITARY OR STORM PAVEMENT OR GRASS MAX. 4 COURSES OF PRECAST UNMAINTAINED ADJUSTING RINGS AS REQUIRED AREAS ______ LESS THAN 4' ALL HOLES IN PRECAST SECTIONS DUE TO FORMING TO BE PLUGGED WITH HYDRALIC CEMENT FOR PIPE, UP TO 24" O-RING GASKET OR ASPHALT MASTIC AT ALL JOINTS RUBBERIZED BOOT PRECAST OR 8" THICK CAST-IN-PLACE OPENINGS FOR ALL PIPE SHALL BE CONCRETE CAST IN PRECAST SECTIONS AND PROVIDED WITH RUBBERIZED BOOTS 6" THICK CRUSHED STONE (SAME AS PIPE BEDDING MATERIAL) MANHOLES SHOWN ON THE PLOT OR PIPING PLAN SHALL BE PRECAST CONCRETE AND CONSTRUCTED OF MATERIALS AND IN A MANNER MEETING THE SPECIFICATIONS OF ASTM C-478 AND THE PUBLIC SEE GRADING AND/OR PIPING PLAN FOR TOP AND INVERT ELEVATIONS. SIZE AND ARRANGEMENT OF INLET/OUTLET PIPING. 3. ADDITIONAL MASONRY BRICK OR BLOCK WORK IS NOT PERMITTED TO MEET SURFACE ELEVATION. FOR SANITARY SEWERS ONLY THE BOTTOM OF THE MANHOLE SHALL BE CONTOURED WITH CONCRETE TO CHANNEL THE FLOW THROUGH THE MANHOLE. WHEN SPECIFIED ON THE PLANS, AN EXTERIOR "DROP" MANHOLE SHALL BE CONSTRUCTED PER LOCAL SPECIFICATIONS. A STANDARD MANHOLE SCALE: NOT TO SCALE



GEOTEXTILE FABRIC SPECIFICATIONS

8 OZ. NONWOVEN NEEDLE PUNCHED FABRIC; AMOCO 4553, PHILLIPS SUPAC 8NP, OR EQUAL

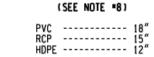
GENERAL NOTES:

- ALL STORM AND SANITARY PIPING SHALL BE THE SIZE AND TYPE SHOWN ON THE GRADING OR PIPING PLAN, AND SHALL CONFORM TO THE ASTM AND AASHTO STANDARD SPECIFICATIONS LISTED HERE, UNLESS OTHERWISE REQUIRED BY GOVERNING AUTHORITIES.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF DIVISION 15 OF MARATHON PETROLEUM'S STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO STARTING ANY BELOW GRADE WORK TO LOCATE UNDERGROUND FACILITIES.
- 4. ALL SANITARY SEWERS SHALL HAVE "PREMIUM" SEALED JOINTS. STORM SEWERS WITHIN 20' OF HYDROCARBON PRODUCT PIPING OR UNDERGROUND TANKS SHALL HAVE "PREMIUM SEALED JOINTS.
- E THE DIDE INVEDT CHAIL OF STRAIGHT LINE CRARED DETWEEN FLEWATIONS CHOWN ON THE DIAM
- 5. THE PIPE INVERT SHALL BE STRAIGHT LINE GRADED BETWEEN ELEVATIONS SHOWN ON THE PLAN-
- 7. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINING WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.

6. PIPE SHALL BE LAID FROM THE LOWER ELEVATION TO THE HIGHER ELEVATION.

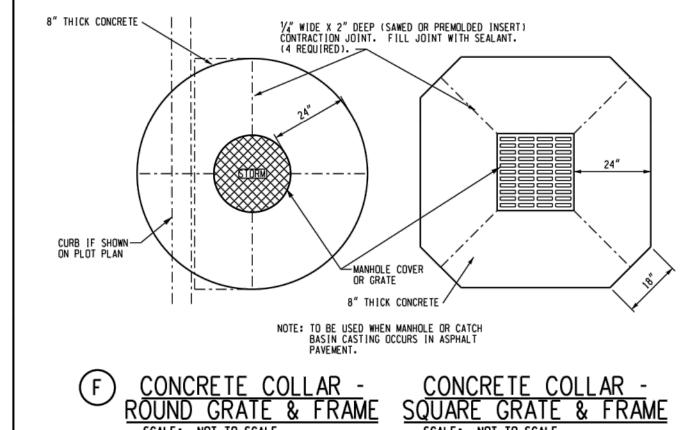
- 8. PIPING TO BE MIN. 6" BELOW PAVEMENT THICKNESS (INCLUDING BASE).
- 9. SEE DRAWING * STD-SB-1 FOR CANOPY DOWNSPOUT DRAIN DETAILS.

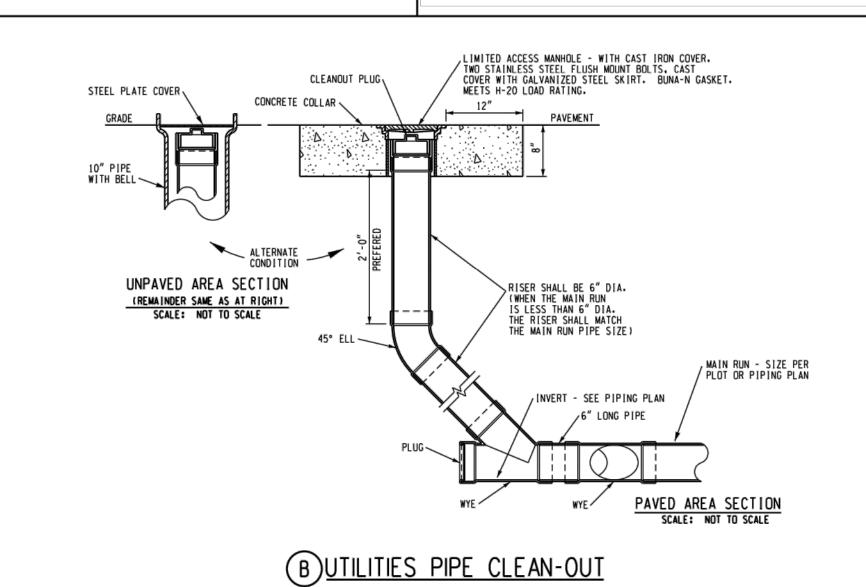
MINIMUM DEPTH OF BURY:



PIPE SLOPES

		MINIMUM PIP	E SLOPES (%)		MAXIMUM PIPE	SLOPES (%)		
		TYPE OF PIPE	and "n" VALUES	TYPE OF PIPE and "n" VALUES				
l .	POLY-VYNYL	SMOOTH LINED	RE INFORCED	POLY-VYNYL	SMOOTH LINED	REINFORCED		
Pipe	CHLORIDE	CORRUGATED	CONCRETE (RCP) &	CHLORIDE	CORRUGATED	CONCRETE (RCP) &		
Diameter	(PVC)	HDPE	DUCTILE IRON (DIP)	(PVC)	HDPE	DUCTILE IRON (DIP)		
(Inches)	0.010	0.012	0.013	0.010	0.012	0.013		
4	0.81	1.44	1.69	8.98	15.96	18.73		
6	0.47	0.84	0.98	5.23	9.30	10.91		
8	0.32	0.57	0.67	3.56	6.33	7.43		
10	0.24	0.42	0.50	2.65	4.70	5.52		
12	0.19	0.33	0.39	2.08	3.69	4.33		
15	0.14	0.25	0.29	1.54	2.74	3.22		
18	0.11	0.19	0.23	1.21	2.15	2.52		
21	0.09	0.16	0.18	0.98	1.75	2.05		
24	0.07	0.13	0.15	0.82	1.46	1.72		
27	0.06	0.11	0.13	0.70	1.25	1.47		
30	0.06	0.10	0.11	0.61	1.09	1.28		
36	0.04	0.08	0.09	0.48	0.85	1.00		
48	0.03	0.05	0.06	0.33	0.58	0.68		
60	0.02	0.04	0.05	0.24	0.43	0.51		





PIPE TYPE OF PIPE	"n" VALUES	CIFICA SIZES PERMITTED	SEVICE AND USE	P I PE SPECIFICATION	INSTALLATION SPECIFICATION	JOINT Specification	PREMIUM JOINTS (SEE NOTE =4)
POLY-VINYL CHLORIDE (PVC)	0.01	4" - 6"	SANITARY SEWER	ASTM D-3034 SDR 26	ASTM D-2321 STANDARD PRACTICE FOR INSTALLATION OF FLEXIBLE	ASTM D-3212 STANDARD SPECIFICATION FOR JOINTS FOR DRAIN	ASTM F-477 ELASTOMERIC SEALS FOR JOINING PLASTIC PIPE
·		8" - 12"	STORM DRAINAGE	STANDARD SPECIFICATION FOR TYPE PSM PVC SEWER PIPE AND FITTINGS	THERMOPLASTIC SEWER PIPE CLASS I BEDDING FOR PAVED AREAS	AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS	(OIL RESISTANT) HIGH NITRILE (NBR), EPICHLOROHYDRIN (ECO), NEOPRENE (CR), POLYSULFIDE (T), OR FLUORO ELASTOMER (FPM)
RE INFORCED CONCRETE (RCP)	0.013	12" DIA. AND LARGER	STORM DRAINAGE	ASTM C-76 CLASS 4, WALL B- TONGUE AND GROOVE	CLASS B BEDDING FOR PAVED AREAS	BITUMINOUS MASTIC	ASTM C-443 STANDARD SPECIFICATION FOR JOINTS FOR CIRCULAR
				STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE	WHEN OUTLETTING TO SURFACE GRADE FLARED END SECTION MUST BE USED		CONCRETE SEWER AND CULVERT PIPE, USING RUBBER GASKETS (OIL RESISTANT)
SMOOTH LINED CORRUGATED HDPE N-12 BY ADVANCED DRAINAGE SYSTEMS (800) 733-9554	0.012	8" AND LARGER	STORM DRA I NAGE	AASHTO M294-S	ASTM D-2321 CLASS 1 BEDDING FOR PAVED AREAS	STANDARD COUPLERS (PRO LINK) USE GASKET IN FINE SOILS	PVC DOUBLE BELL COUPLER WITH GASKET (PRO LINK 10.8) AVAILABLE THROUGH 24"
SMOOTH LINED CORRUGATED HDPE SURE-LOK BY HANCOR	0.012	12" AND LARGER	STORM DRAINAGE	AASHTO M294-S	ASTM D-2321 CLASS 1 BEDDING FOR PAVED AREAS	BELL & SPIGOT WITH GASKET (SURE-LOK)	BELL & SPIGOT WITH POLYISOPRENE GASKET (SURE-LOK 10.8) AVAILABLE THROUGH 30"
(800) 537-9520 DUCTILE IRON	0.012	4" - 12"	SPECIAL	ASTM A-746 CLASS 52	TYPE 5 BEDDING	RUBBER GASKET	GASKET TO BE
(DI)	0.012	4 - 12	SPECIAL .	STANDARD SPECIFICATION FOR DUCTILE IRON GRAVITY SEWER PIPE	FOR PAVED AREAS	COMPRESSION TYPE JOINT	OIL RESISTANT NITRILE-BUTADIENE (NBR)
POLYETHYLENE (PE)	0.010		UNDERDRAINS AND SEPTIC DISPOSAL FIELDS <u>ONLY</u>	ASTM F-405 STANDARD SPECIFICATION FOR CORRUGATED POLYETHYLENE TUBING AND FITTINGS	SEE UNDERDRAIN DETAIL	STANDARD COUPLINGS	N/A

Prepared By:
Speedway
Engineering and Construction Dept.
Enon, OH 45323

TYPICAL SERVICE STATION
RAINAGE & UTILITY DETAILS & SPECIFICATIONS

AS SHOWN

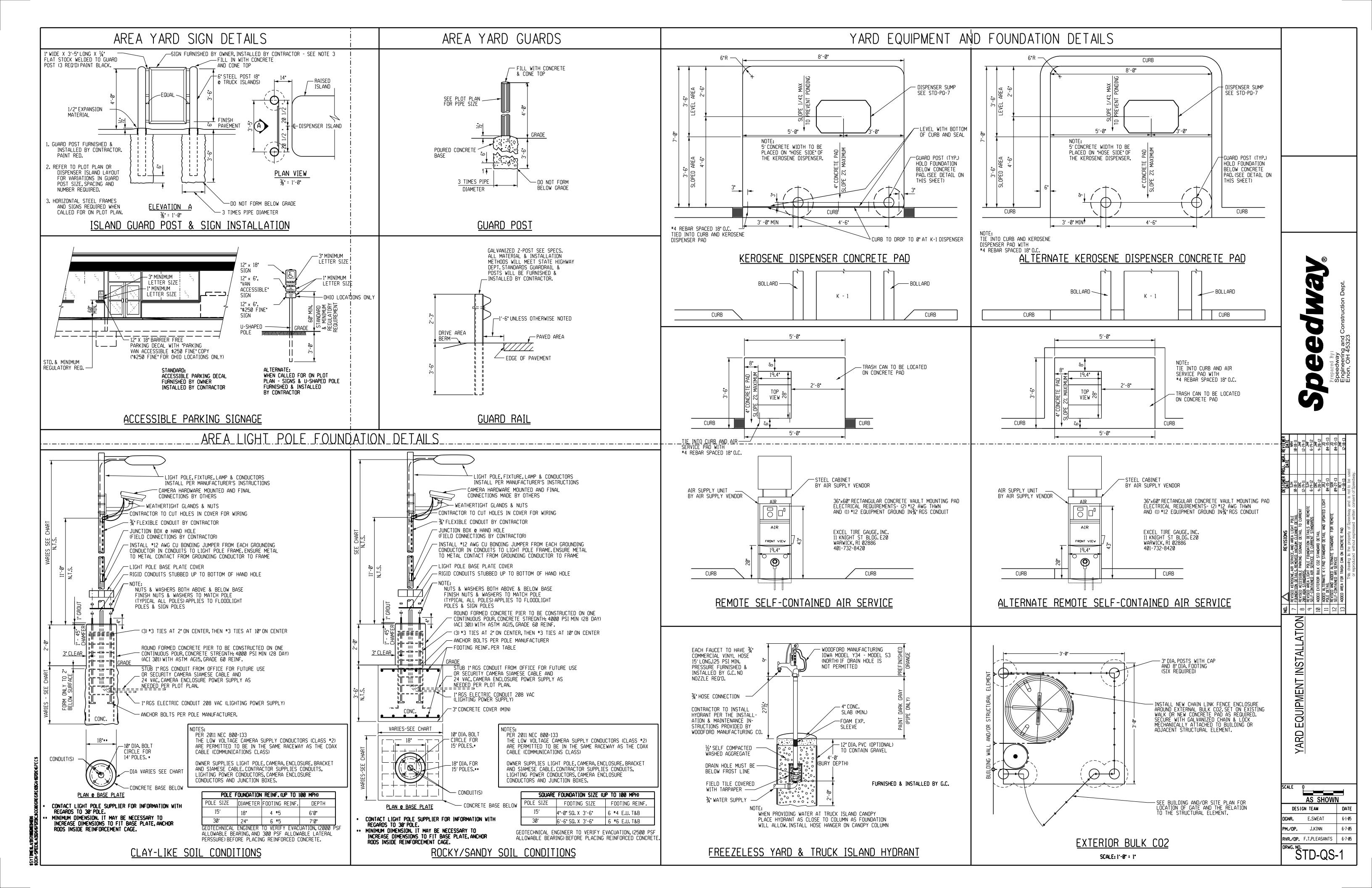
DESIGN TEAM DATE

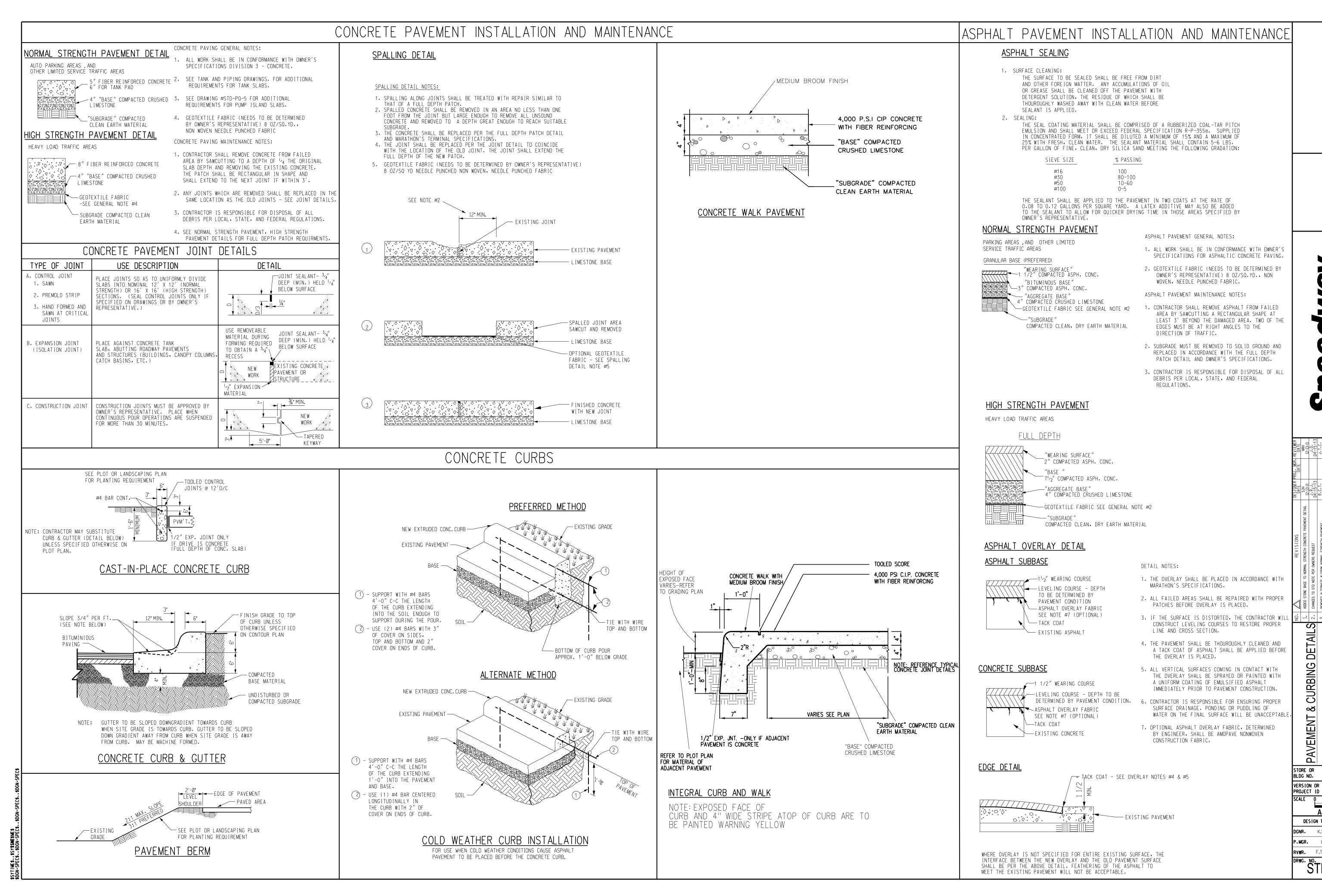
DGNR. E. SWEAT 11-14-0

P.MGR. J. FRYE 11-14-0

RVWR. D.ERFORD 11-14-0

DRWG. NO. 1413 PS-1





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CURBING

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AS SHOWN

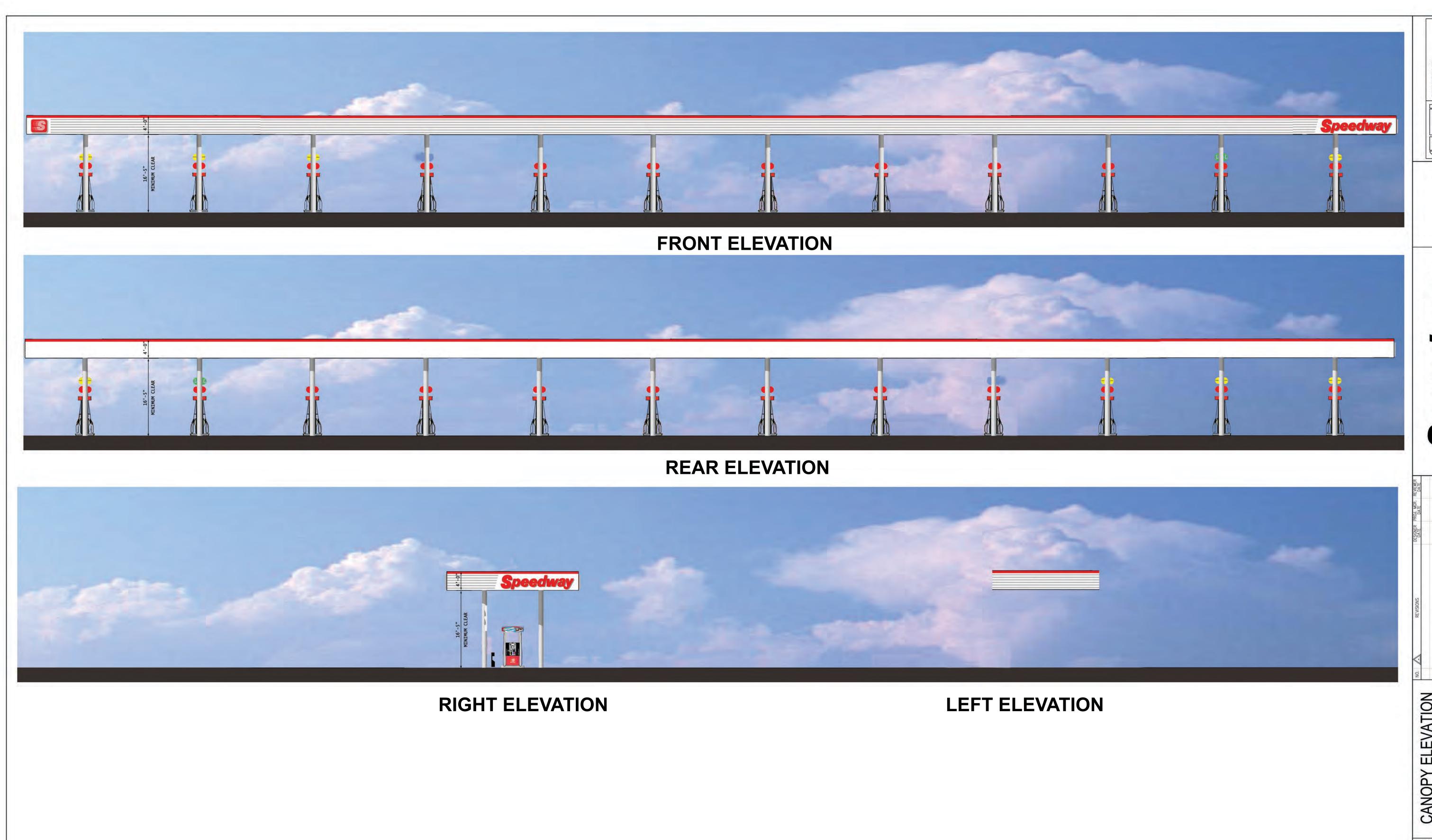
K.SPRINGER 11-2-04

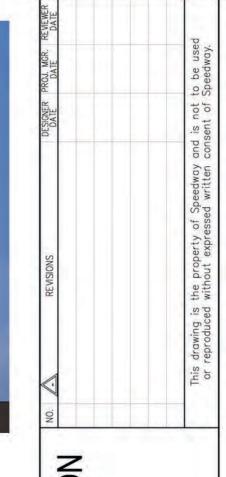
L.D.LOCKE 11-2-04

F.T.PLEASANTS 11-2-04

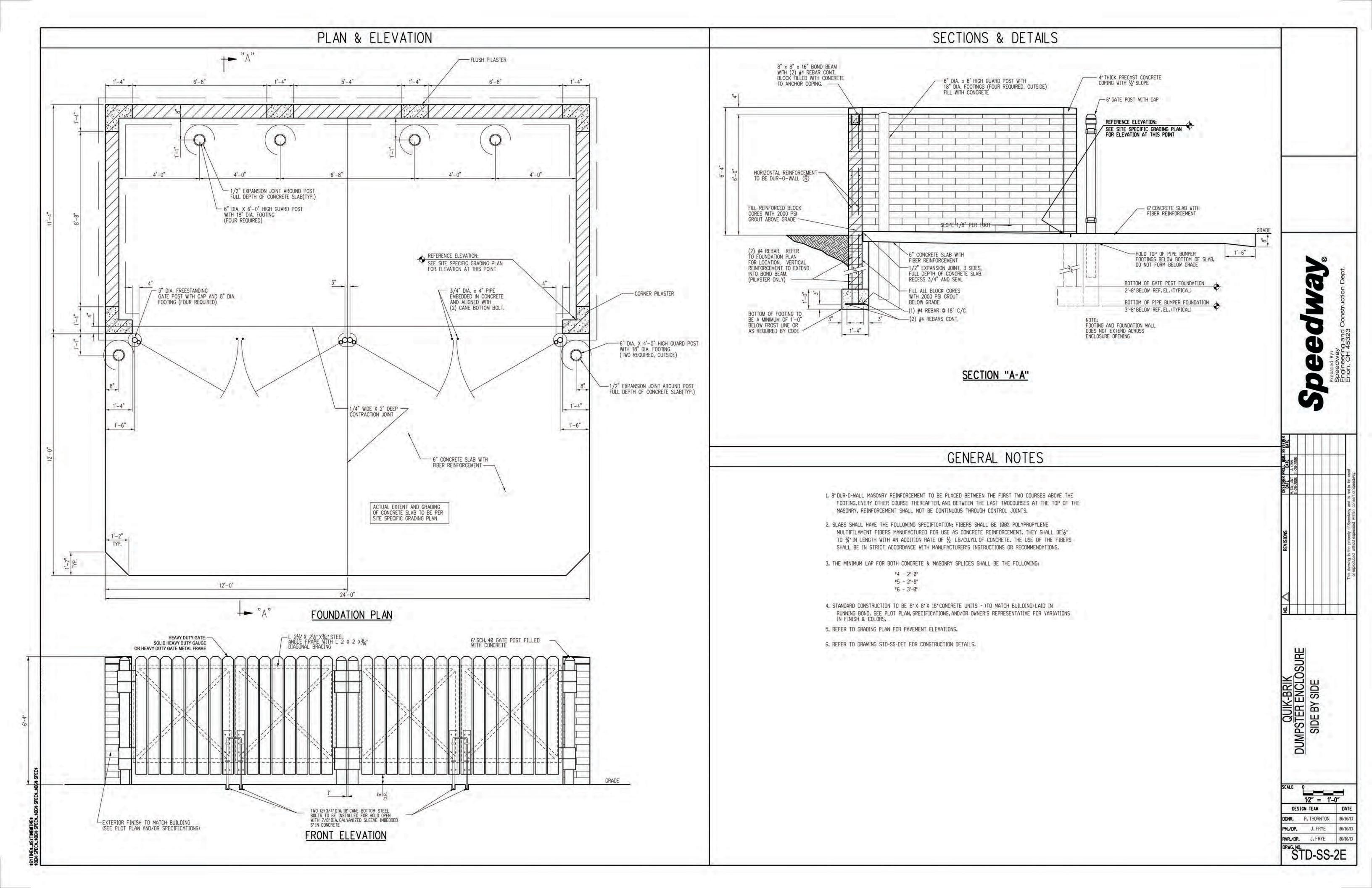
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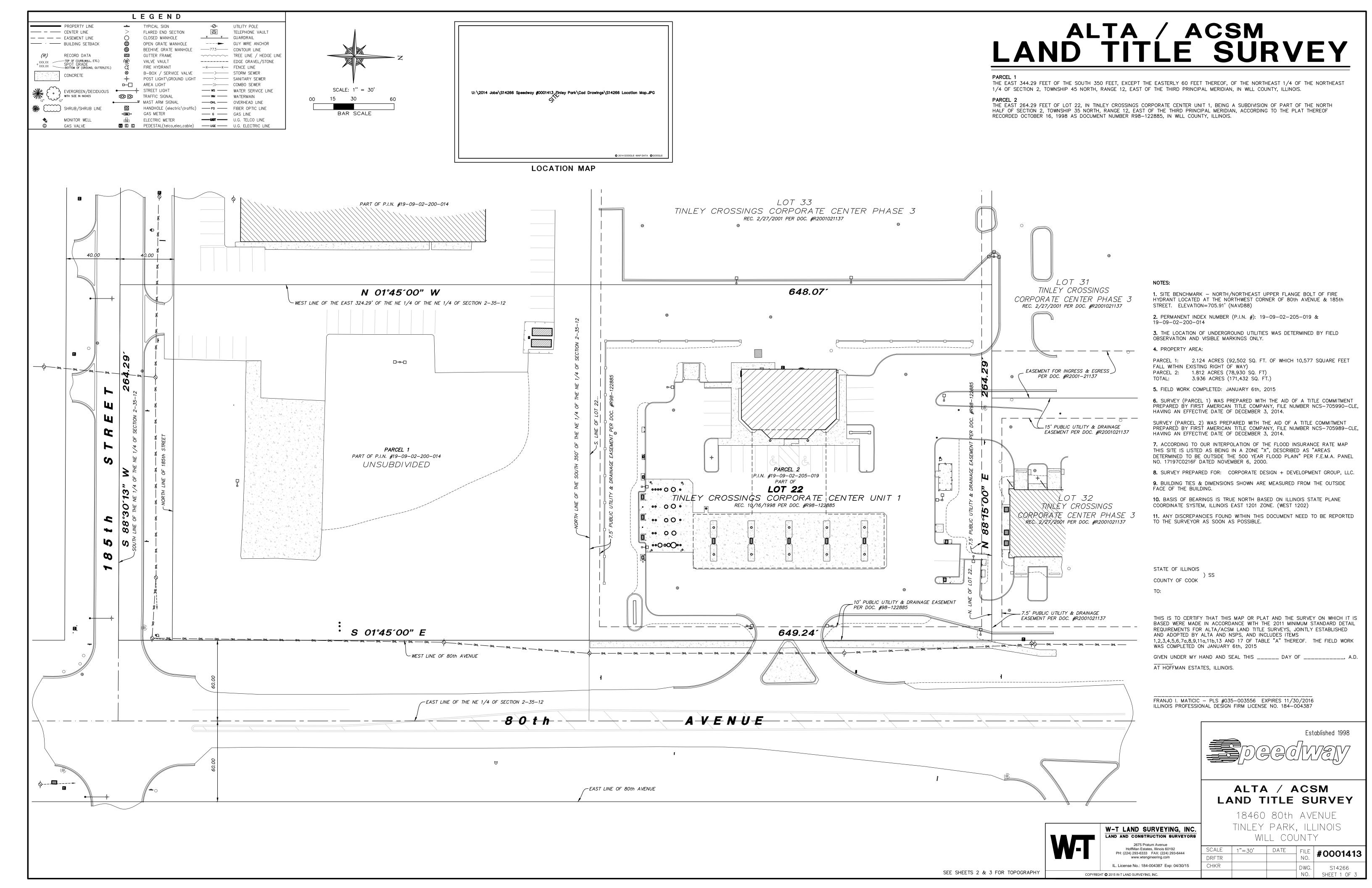
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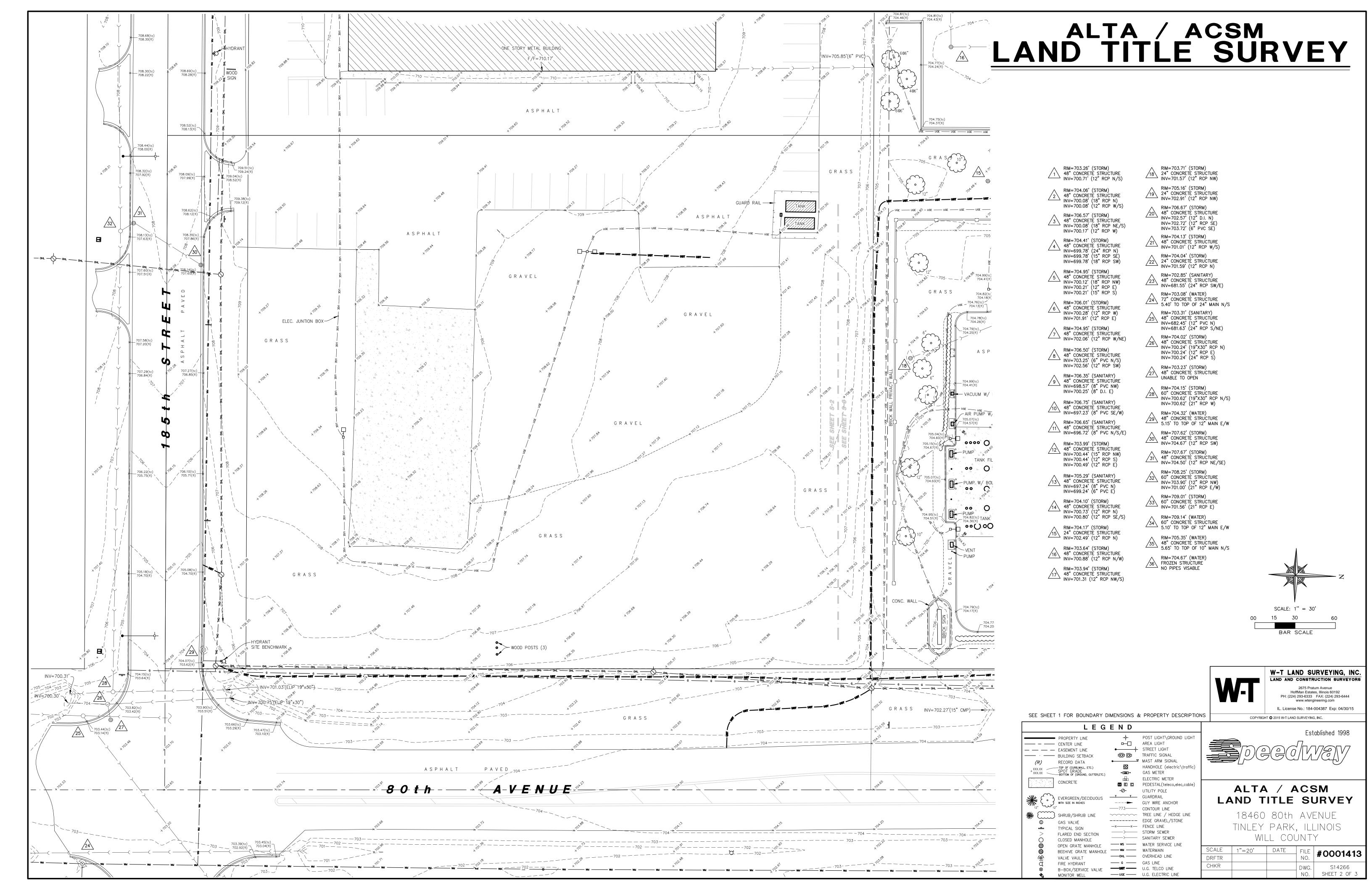


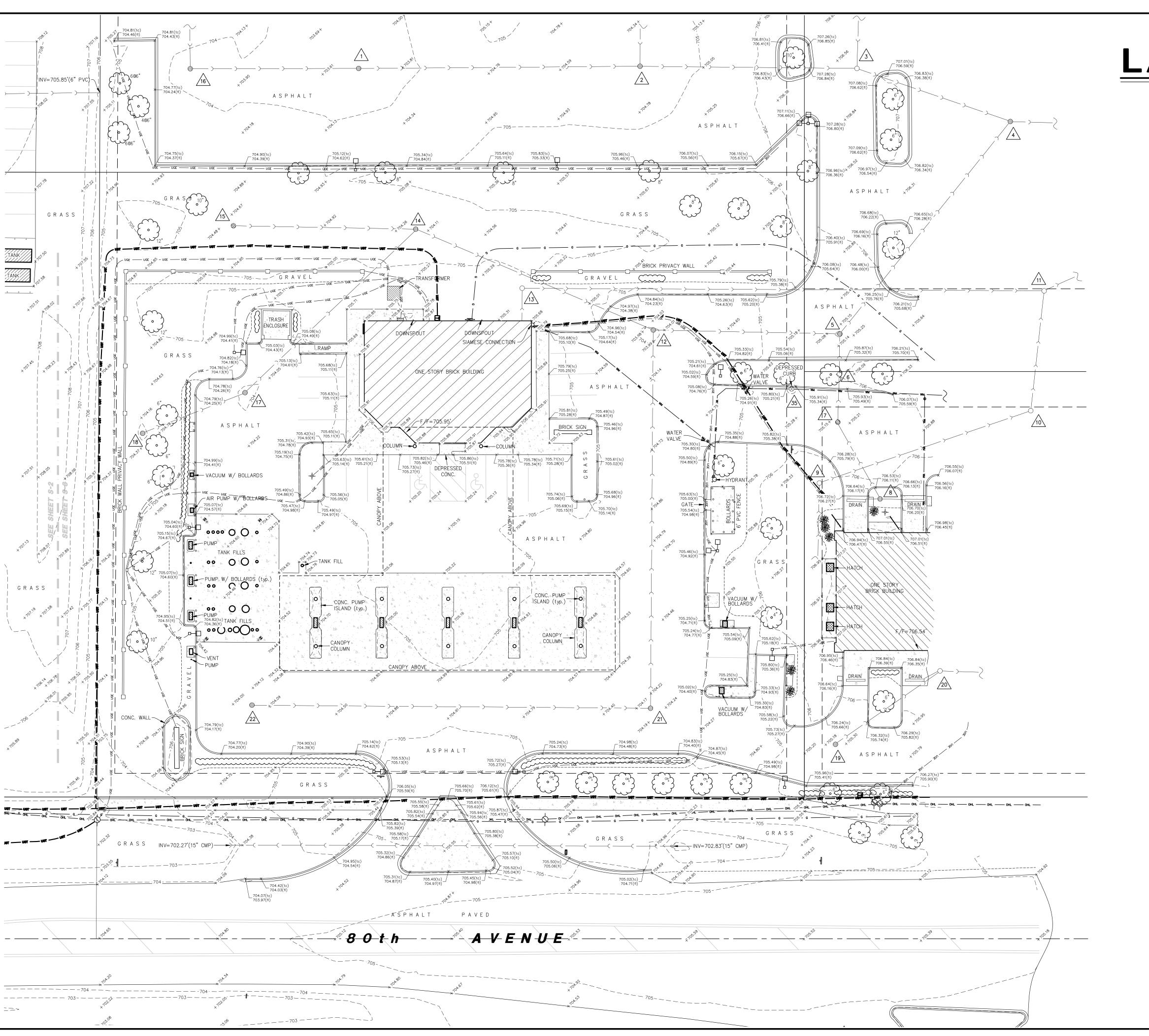


CANOPY ELEVATION
DIESEL EXPANSION
18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL









ALTA / ACSM LAND TITLE SURVEY

RIM=703.26' (STORM) ∕1\ 48" CONCRETÈ STRUĆTURE $^{\Delta}$ INV=700.71' (12" RCP N/S)

RIM=704.06' (STORM) /2\\\ 48" CONCRETE STRUCTURE ' INV=700.08' (18" RCP N) INV=700.08' (12" RCP W/S)

RIM=706.57' (STORM) /3\ 48" CONCRETE STRUCTURE $^{\Delta}$ INV=700.08' (18" RCP NE/S) INV=700.17' (12" RCP W)

RIM=704.41' (STORM) ∕4∖ 48" CONCRETÈ STRÚCTURE INV=699.78' (24" RCP N) INV=699.78' (15" RCP SÉ) INV=699.78' (18" RCP SW)

RIM=704.95' (STORM)
48" CONCRETE STRUCTURE ^Δ INV=700.12' (18" RCP NW) INV=700.21' (12" RCP E) INV=700.21' (15" RCP S) RIM=706.01' (STORM)

 $^{\Delta}$ INV=700.28' (12" RCP W) INV=701.91' (12" RCP E) RIM=704.95' (STORM)
48" CONCRETE STRUCTURE

6\ 48" CONCRETÈ STRÚCTURE

' INV=702.06' (12" RCP W/NE) RIM=706.50' (STORM)

8 48" CONCRETE STRUCTURE INV=703.25' (6" PVC N/S) INV=702.56' (12" RCP SW) RIM=706.35' (SANITARY)

RIM=706.75' (SANITARY)

RIM=706.65' (SANITARY)

RIM=703.99' (STORM) 48" CONCRETE STRUCTURE

RIM=705.29' (SANITARY) INV=699.24' (6" PVC E)

RIM=704.10' (STORM) 48" CONCRETE STRUCTURE INV=700.73' (12" RCP N)

RIM=704.17' (STORM)
24" CONCRETE STRUCTURE
INV=702.49' (12" RCP N)

RIM=703.94' (STORM) RIM=703.94 (STURM)
48" CONCRETE STRUCTURE
INV=701.31 (12" RCP NW/S)

RIM=703.71' (STORM) 24" CONCRETE STRUCTURE INV=701.57' (12" RCP NW)

RIM=705.16' (STORM) 24" CONCRETE STRUCTURE INV=702.91' (12" RCP NW)

RIM=706.67' (STORM) 48" CONCRETE STRUCTURE INV=702.57' (12" D.I. N) INV=702.72' (12" RCP SE) INV=703.72' (6" PVC SE)

RIM=704.13' (STORM)
48" CONCRETE STRUCTURE
INV=701.01' (12" RCP W/S)

RIM=704.04' (STORM) 22 24" CONCRETE STRUCTURE INV=701.59' (12" RCP N)

RIM=702.85' (SANITARY) 48" CONCRETE STRUCTURE
INV=681.55' (24" RCP SW/E)

72" CONCRETE STRUCTURE 5.40' TO TOP OF 24" MAIN N/S

RIM=704.02' (STORM)

48" CONCRETE STRUCTURE INV=698.57' (8" PVC NW) INV=700.25' (8" D.I. E)

48" CONCRETE STRUCTURE INV=697.23' (8" PVC SE/W)

48" CONCRETE STRUCTURE
INV=696.72' (8" PVC N/S/E)

 $^{\Delta}$ INV=700.44 $^{\prime}$ (15 $^{\prime\prime}$ RCP NW) INV=700.44' (12" RCP S) INV=700.49' (12" RCP E)

13\ 48" CONCRETÈ STRUCTÚRE

INV=700.80' (12" RCP SÉ/S)

RIM=703.64' (STORM)
48" CONCRETE STRUCTURE
INV=700.88' (12" RCP N/W)

RIM=703.08' (WATER)

RIM=703.31' (SANITARY) 48" CONCRETE STRUCTURE INV=682.45' (12" PVC N) INV=681.63' (24" RCP S/NE)

48" CONCRETE STRUCTURE
INV=700.24' (19"X30" RCP N) INV=700.24' (12" RCP E) INV=700.24' (24" RCP S) RIM=703.23' (STORM)

48" CONCRETE STRUCTURE ^{__} UNABLE TO OPEN

RIM=704.15' (STORM)
60" CONCRETE STRUCTURE
INV=700.62' (19"X30" RCP N/S) INV=700.62' (21" RCP W) RIM=704.32' (WATER)
48" CONCRETE STRUCTURE
5.15' TO TOP OF 12" MAIN E/W

RIM=707.62' (STORM)
48" CONCRETE STRUCTURE
INV=704.67' (12" RCP SW)

RIM=707.67' (STORM) 48" CONCRETE STRUCTURE
INV=704.50' (12" RCP NE/SE)

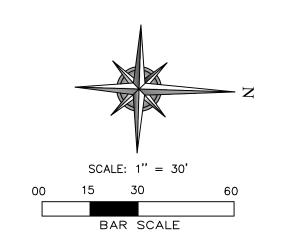
RIM=708.25' (STORM)
60" CONCRETE STRUCTURE
INV=703.90' (12" RCP NW) INV=701.00' (21" RCP E/W)

RIM=709.01' (STORM)
60" CONCRETE STRUCTURE INV=701.56' (21" RCP E)

RIM=709.14' (WATER)
60" CONCRETE STRUCTURE
5.10' TO TOP OF 12" MAIN E/W

RIM=705.35' (WATER) 48" CONCRETE STRUCTURE 5.65' TO TOP OF 10" MAIN N/S

RIM=704.67' (WATER) FROZEN STRUCTURE
NO PIPES VISABLE





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HoffMan Estates, Illinois 60192

Established 1998

ALTA / ACSM LAND TITLE SURVEY

18460 80th AVENUE TINLEY PARK, ILLINOIS WILL COUNTY

CHKR DWG. S14266	SCALE	1"=20'	DATE	FILE	#000141
DWG.	DRFTR			NO.	#000141
	CHKR			DWG.	S14266
NO. SHEET 3 OF				NO.	SHEET 3 OF 3

SEE SHEET 1 FOR BOUNDARY DIMENSIONS & PROPERTY DESCRIPTIONS LEGEND

PROPERTY LINE — — CENTER LINE • STREET LIGHT — — EASEMENT LINE r TRAFFIC SIGNAL --- BUILDING SETBACK ● ■ MAST ARM SIGNAL RECORD DATA —TOP OF (CURB, WALL, ETC.)
SPOT GRADE
—BOTTOM OF (GROUND, GUTTER, ETC.) CONCRETE ■ E © PEDESTAL(teleco,elec,cable) _____ GUARDRAIL

EVERGREEN/DECIDUOUS WITH SIZE IN INCHES SHRUB/SHRUB LINE TYPICAL SIGN

----773---- CONTOUR LINE TREE LINE / HEDGE LINE FLARED END SECTION CLOSED MANHOLE FIRE HYDRANT

---- EDGE GRAVEL/STONE -x-x- FENCE LINE ───────── SANITARY SEWER

□──□ AREA LIGHT

POST LIGHT\GROUND LIGHT

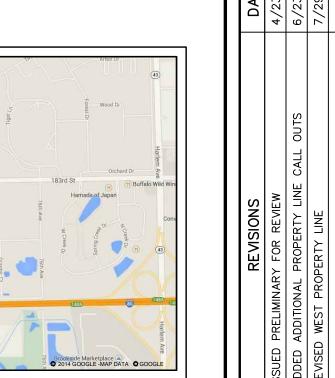
HANDHOLE (electric\traffic)

GAS METER ELECTRIC METER

UTILITY POLE

---→ GUY WIRE ANCHOR

ZONED: ORI PD "OFFICE & RESTRICTED INDUSTRIAL"



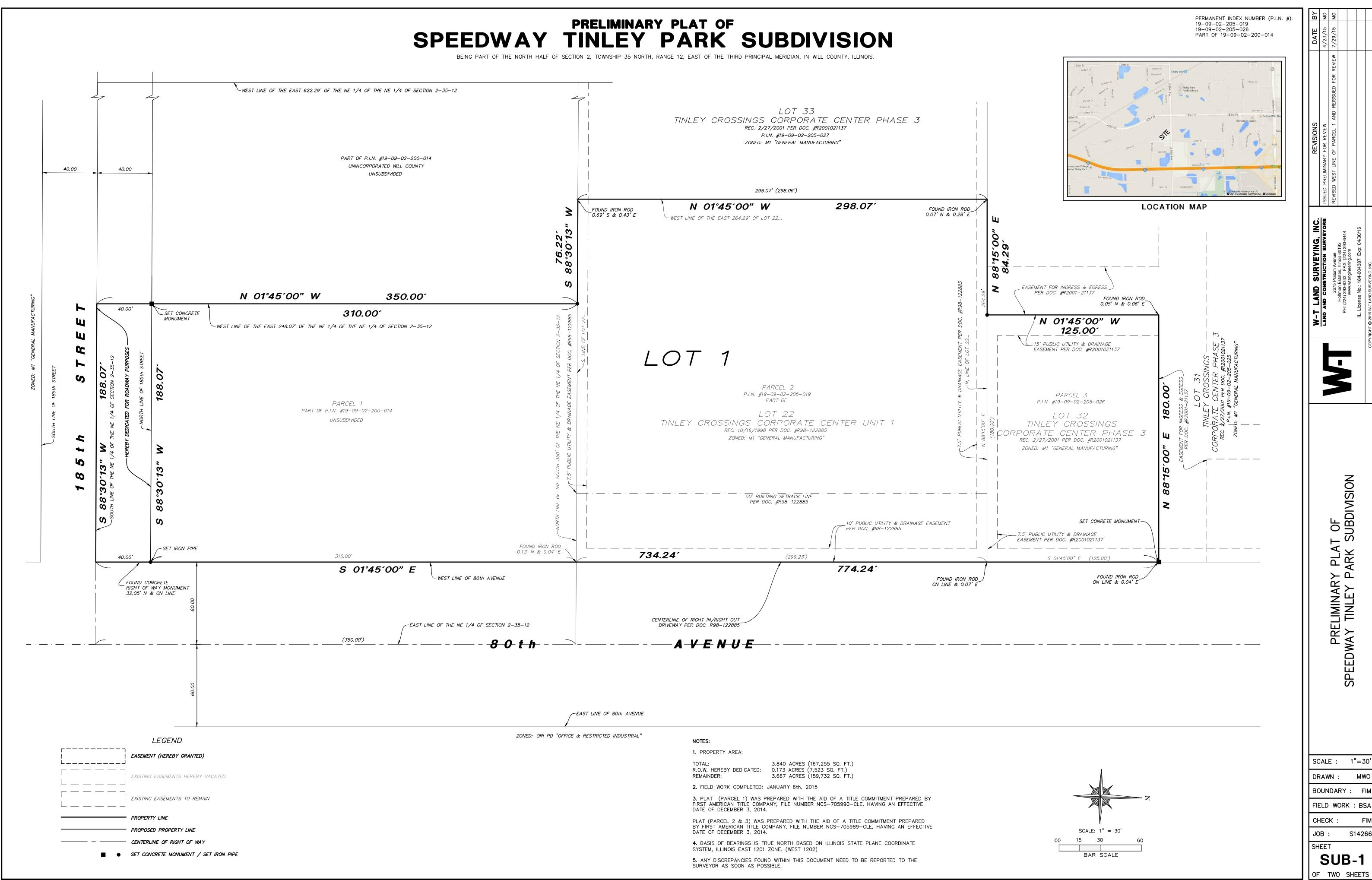
FRANJO I. MATICIC - PLS #035-003556 EXPIRES 11/30/2016 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004387

OF

SCALE : 1"=30' BOUNDARY: FIM FIELD WORK : BSA CHECK: JOB: S14266

SHEET ANX-1

OF ONE SHEETS



NOISI

BOUNDARY: FIM FIELD WORK : BSA

SUB-1

BEING PART OF THE NORTH HALF OF SECTION 2, TOWNSHIP 35 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN WILL COUNTY, ILLINOIS.

AN EASEMENT FOR SERVING THE SUBDIVISION AND OTHER PROPERTY WITH ELECTRIC AND COMMUNICATIONS SERVICE IS HEREBY RESERVED FOR AND GRANTED TO

COMMONWEALTH EDISON COMPANY AND ILLINOIS BELL TELEPHONE COMPANY (AT&T), GRANTEES,

THEIR RESPECTIVE SUCCESSORS AND ASSIGNS, JOINTLY AND SEVERALLY, TO INSTALL, OPERATE, MAINTAIN AND REMOVE, FROM TIME TO TIME, FACILITIES USED IN CONNECTION WITH OVERHEAD AND UNDERGROUND TRANSMISSION AND DISTRIBUTION OF ELECTRICITY AND SOUNDS AND SIGNALS IN, OVER, UNDER, ACROSS, ALONG AND UPON THE SURFACE OF THE PROPERTY SHOWN WITHIN THE DOTTED LINES ON THE PLAT AND MARKED "EASEMENT", THE PROPERTY DESIGNATED IN THE DECLARATION OF CONDOMINIUM AND/ OR ON THIS PLAT AS "COMMON ELEMENTS", AND THE PROPERTY DESIGNATED ON THE PLAT AS A "COMMON AREA OR AREAS," AND THE PROPERTY DESIGNATED ON THE THE PLAT FOR STREETS AND ALLEYS, WHETHER PUBLIC OR PRIVATE, TOGETHER WITH THE RIGHT TO INSTALL REQUIRED SERVICE CONNECTIONS OVER OR UNDER THE SURFACE OF EACH LOT AND COMMON AREA OR AREAS TO SERVE IMPROVEMENTS THEREON, OR ON ADJACENT LOTS, AND COMMON AREA OR AREAS, THE RIGHT TO CUT, TRIM, OR REMOVE TREES, BUSHES AND ROOTS AS MAY BE REASONABLE REQUIRED INCIDENT TO THE RIGHTS HEREIN GIVE, AND THE RIGHT TO ENTER UPON THE SUBDIVIDED PROPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT BE PLACED OVER GRANTEES' FACILITIES OR IN, UPON OR OVER THE PROPERTY WITHIN THE DOTTED LINES MARKED "EASEMENT" WITHOUT THE THE PRIOR WRITTEN CONSENT OF GRANTEES. AFTER INSTALLATION OF ANY SUCH FACILITIES, THE GRADE OF THE SUBDIVIDED PROPERTY SHALL NOT BE ALTERED IN A MANNER SO AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENANCE THEREOF.

THE TERM "COMMON ELEMENTS" SHALL HAVE THE MEANING SET FOURTH FOR SUCH TERM IN THE "CONDOMINIUM PROPERTY," CHAPTER 765 ILCS 605/2(E), AS AMENDED FROM TIME TO TIME. THE TERM "COMMON AREA OR AREAS" IS DEFINED AS A LOT, PARCEL OR AREA OF REAL PROPERTY. THE BENEFICIAL USE AND ENJOYMENT OF WHICH IS RESERVED IN WHOLE AS AN APPURTENANCE TO THE SEPARATELY OWNED LOTS, PARCELS OR AREAS WITHIN THE PLANNED DEVELOPMENT, EVEN THOUGH SUCH BE DESIGNATED ON THE LOT BY TERMS SUCH AS, "OUTLOTS," "COMMON ELEMENTS," "OPEN SPACE," "OPEN AREA," "COMMON GROUND," "PARKING AND COMMON AREA." THE TERMS "COMMON AREA OR AREAS" AND "COMMON ELEMENTS" INCLUDES REAL PROPERTY SURFACED WITH INTERIOR DRIVEWAYS AND WALKWAYS, BUT EXCLUDES REAL PROPERTY PHYSICALLY OCCUPIED NY A BUILDING. SERVICE BUSINESS DISTRICT OR STRUCTURES SUCH AS A POOL OR RETENTION POND, OR MECHANICAL EQUIPMENT. RELOCATION OF FACILITIES WILL BE DONE BY GRANTEES AT COST OF GRANTOR/LOT OWNER, UPON WRITTEN REQUEST.

AN EASEMENT FOR SERVICING THE SUBDIVSION AND OTHER PROPERTY WITH GAS SERVICE IS HEREBY RESERVED FOR AND GRANTED TO THE NORTHERN ILLINOIS GAS COMPANY

AN EASEMENT IS HEREBY RESERVED FOR AND GRANTED TO THE NORTHERN ILLINOIS GAS COMPANY, ITS SUCCESSORS AND ASSIGNS ("NI-GAS") TOO INSTALL, OPERATE, MAINTAIN, REPAIR, REPLACE AND REMOVE, FACILITIES USED IN CONNECTION WITH THE TRANSMISSION AND DISTRIBUTION OF NATURAL GAS IN. OVER. UNDER, ACROSS, ALONG AND UPON THE SURFACE OF THE PROPERTY SHOWN ON THIS PLAT MARKED "EASEMENT," "COMMON AREA OR AREAS" AND STREETS AND ALLEYS, WHETHER PUBLIC OR PRIVATE, AND THE PROPERTY DESIGNATED IN THE DECLARATION OF CONDOMINIUM AND/OR ON THIS PLAT AS "COMMON ELEMENTS," TOGETHER WITH THE RIGHT TO INSTALL REQUIRED SERVICE CONNECTIONS OVER OR UNDER THE SURFACE OF EACH LOT AND COMMON AREA OR AREAS TO SERVE IMPROVEMENTS THEREON, OR ON ADJACENT LOTS, AND COMMON AREAS, AND TO SERVE OTHER PROPERTY, ADJACENT OR OTHERWISE, AND THE RIGHT TO REMOVE OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO, TREES, BUSHES, ROOTS AND FENCES. AS MAY BE REASONABLY REQUIRED INCIDENT TO THE RIGHT HEREIN GIVEN, AND THE RIGHT TO ENTER UPON THE PROPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT BE PLACES OVER NI-GAS' FACILITIES OR IN, UPON OR OVER THE PROPERTY IDENTIFIED ON THIS PLAT FOR THE UTILITY PURPOSED WITHOUT THE PRIOR WRITTEN CONSENT OF NI-GAS. AFTER INSTALLATION OF SUCH FACILITIES, THE GRADE OF THE PROPERTY SHALL NOT BE ALTERED IN A MANNER SO AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENANCE

THE TERM "COMMON ELEMENTS" SHALL HAVE THAT MEANING SET FORTH FOR SUCH TERM IN SECTION 605/2(E) OF THE "CONDOMINIUM PROPERTY ACT" (ILLINOIS COMPLIED STATUTES, CH. 765, SEC. 605/2(E), AS AMENDED FROM TIME TO TIME.

THE TERM "COMMON AREA OR AREAS" IS DEFINED AS A LOT, PARCEL OR AREA OF REAL PROPERTY, INCLUDING REAL PROPERTY SURFACED WITH INTERIOR DRIVEWAYS, THE BENEFICIAL USE AND ENJOYMENT OF WHICH IS RESERVED IN WHOLE AS AN APPURTENANCE TO THE SEPARATELY OWNED LOTS. PARCELS OR AREAS WITHIN THE PROPERTY, EVEN THOUGH SUCH AREAS MAY BE DESIGNED ON THIS PLAT BY OTHER TERMS.

UTILITY EASEMENT PROVISION

A PERMANENT NONEXCLUSIVE EASEMENT IS HEREBY RESERVED FOR AND GRANTED TO THE VILLAGE OF TINLEY PARK, ILLINOIS AND TO ITS SUCCESSORS AND ASSIGNS, IN, UPON, ACROSS, OVER, UNDER, AND THROUGH THE AREAS SHOWN BY DASHED LINES AND LABELED "EASEMENTS" ON THE ATTACHED PLAT OF SUBDIVISION FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, INSPECTING, OPERATING, REPLACING, RENEWING, ALTERING, ENLARGING, REMOVING, REPAIRING, CLEANING AND MAINTAINING STORM AND FLOOD WATER CHANNELS, BASINS, SEWERS AND SANITARY SEWERS, WATER TRANSMISSION MAINS AND LINES, VALVE VAULTS AND HYDRANTS, AND ANY AND ALL MANHOLES, HYDRANTS, PIPES, CONNECTIONS, CATCH BASINS, BUFFALO BOXES AND WITHOUT LIMITATIONS, SUCH OTHER STRUCTURES AND APPURTENANCES AS MAY BE NECESSARY OR CONVENIENT FOR THE FURNISHING OF PUBLIC UTILITY SERVICES, TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS ACROSS AND THROUGH THE EASEMENTS FOR PERSONS AND EQUIPMENT TO DO ANY OR ALL OF THE ABOVE WORK. THE RIGHT IS ALSO HEREBY GRANTED TO THE VILLAGE TO CUT DOWN, TRIM OR REMOVE ANY TREES. SHRUBS OR OTHER PLANTS ON THE EASEMENTS AS WELL AS REMOVE ANY OTHER FENCE OR STRUCTURE THAT INTERFERE WITH THE OPERATION OF THE ABOVE OR WITH THE EXERCISE OF ANY RIGHTS UNDER THIS PARAGRAPH. ALL THE EASEMENTS INDICATED SHALL BE PERPETUAL, EXCEPT THOSE IDENTIFIED AS "TEMPORARY." THE EASEMENT AREAS SHOWN AS DETENTION OR RETENTION EASEMENTS SHALL INCLUDE, IN ADDITION TO THE ABOVE RIGHTS, THE RIGHT TO FLOOD SUCH AREA WITH STORM WATERS, AND SHALL ALSO INCLUDE THE RIGHT TO INSTALL AND MAINTAIN STORM WATER DETENTION AND RETENTION, STRUCTURES, NO FENCES, STRUCTURES OR TREES SHALL BE PLACED IN EASEMENTS LABELED "EMERGENCY OVERLAND RELEASE ROUTES."

NOTES:

1. PROPERTY AREA:

3.840 ACRES (167,255 SQ. FT.) R.O.W. HEREBY DEDICATED: 0.173 ACRES (7,523 SQ. FT.) REMAINDER: 3.667 ACRES (159,732 SQ. FT.)

2. FIELD WORK COMPLETED: JANUARY 6th, 2015

3. PLAT (PARCEL 1) WAS PREPARED WITH THE AID OF A TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE COMPANY, FILE NUMBER NCS-705990-CLE, HAVING AN EFFECTIVE DATE OF DECEMBER 3, 2014.

PLAT (PARCEL 2 & 3) WAS PREPARED WITH THE AID OF A TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE COMPANY, FILE NUMBER NCS-705989-CLE, HAVING AN EFFECTIVE DATE OF DECEMBER 3, 2014.

4. BASIS OF BEARINGS IS TRUE NORTH BASED ON ILLINOIS STATE PLANE COORDINATE

SYSTEM, ILLINOIS EAST 1201 ZONE. (WEST 1202)

5. ANY DISCREPANCIES FOUND WITHIN THIS DOCUMENT NEED TO BE REPORTED TO THE SURVEYOR AS SOON AS POSSIBLE.

AFTER RECORDING:

RETURN TO: VILLAGE OF TINLEY PARK 16250 S. OAK PARK AVENUE TINLEY PARK, IL 60477

CERTIFICATE AS TO SPECIAL ASSESSMENTS

STATE OF ILLINOIS COUNTIES OF COOK/WILL

INCLUDED IN THE PLAT.

__, VILLAGE CLERK OF THE VILLAGE OF TINLEY PARK, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN APPORTIONED AGAINST THE TRACT OF LAND

DATED THIS ______, 20 _____,

VILLAGE CLERK

BOARD OF TRUSTEES CERTIFICATE

STATE OF ILLINOIS

COUNTIES OF COOK/WILL

APPROVED AND ACCEPTED BY THE BOARD OF TRUSTEES OF THE VILLAGE OF TINLEY PARK, COOK & WILL COUNTIES, ILLINOIS.

THIS _____, A.D. 20 ___.

ATTEST: VILLAGE CLERK

PLAN COMMISSION CERTIFICATE

STATE OF ILLINOIS

COUNTIES OF COOK/WILL

_____, CHAIRMAN OF THE VILLAGE OF TINLEY PARK PLAN COMMISSION, DO CERTIFY THAT ON THIS ______ DAY OF ______, A.D. ____, THIS PLAT OF SUBDIVISION WAS DULLY APPROVED BY THE PLAN COMMISSION OF THE VILLAGE OF TINLEY PARK.

CHAIRMAN

SURFACE WATER STATEMENT

STATE OF ILLINOIS

COUNTY OF COOK

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SUBDIVISION OR ANY PART THEREOF, OR, THAT IF SUCH SURFACE DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE THE CONSTRUCTION OF THE SUBDIVISION.

DATED THIS _____ DAY OF _____ A.D. ____

ILLINOIS REGISTERED PROFFESSIONAL ENGINEER

STATE REGISTRATION NUMBER

REGISTRATION EXPIRATION DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION CERTIFICATE

THIS PLAT HAS BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION WITH RESPECT TO ROADWAY ACCESS PURSUANT OF S2 OF "AN ACT TO REVISE THE LAW IN RELATION TO PLATS," AS AMENDED. A PLAN THAT MEETS THE REQUIREMENTS CONTAINED IN THE DEPARTMENT'S "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS" WILL BE REQUIRED BY THE DEPARTMENT.

JOHN FORTMANN, P.E. DEPUTY DIRECTOR OF HIGHWAYS REGION ONE ENGINEER

SCHOOL DISTRICT BOUNDARY STATEMENT

BEING DULY SWORN, UPON HIS/HER OATH DEPOSES AND STATES AS FOLLOWS:

- 1. THE OWNER OF THE PROPERTY LEGALLY DESCRIBED ON THIS PLAT OF SUBDIVISION, WHICH HAS BEEN SUBMITTED TO THE VILLAGE OF TINLEY PARK FOR APPROVAL, WHICH LEGAL DESCRIPTION IS INCORPORATED HEREIN BY REFERENCE: AND
- 2. TO THE BEST OF THE OWNER'S KNOWLEDGE, THE SCHOOL DISTRICT IN WHICH TRACT. PARCEL, LOT OR BLOCK OF THE PROPOSED SUBDIVISION LIES IS LOCATED IN:

ELEMENTARY SCHOOL DISTRICT NO. 161 HIGH SCHOOL DISTRICT NO. 210 JOLIET JUNIOR COMMUNITY COLLEGE

DATED THIS _____ DAY OF _____ A.D. ____

(SIGNATURE) (SIGNATURE)

SUBSCRIBED AND SWORN BEFORE ME THIS ____ DAY OF _____ A.D.___ A.D.___

NOTARY PUBLIC

OWNER'S CERTIFICATE CERTIFICATE

STATE OF _____ COUNTY OF _____

THIS IS TO CERTIFY THAT THE UNDERSIGNED IS THE OWNER OF THE LAND DESCRIBED IN THE ANNEXED PLAT, AND HAS CAUSED THE SAME TO BE SURVEYED AND SUBDIVIDED, AS INDICATED THEREON, FOR THE USES AND PURPOSES THEREIN HAS CAUSED AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREON INDICATED.

THE UNDERSIGNED HEREBY DEDICATES FOR PUBLIC USE THE LANDS SHOWN ON THIS PLAT FOR THOROUGHFARES, STREETS, ALLEYS AND PUBLIC SERVICES: AND HEREBY ALSO RESERVES FOR THE ILLINOIS BELL TELEPHONE COMPANY AND THE COMMONWEALTH EDISON COMPANY, AND THE VILLAGE, THE EASEMENT PROVISIONS WHICH ARE STATED ON THEIR STANDARD FORM WHICH IS ATTACHED HERETO.

(ADDRESS)

DATED THIS ______ DAY OF _____ A.D. 20____.

NOTARY'S CERTIFICATE

STATE OF ______ COUNTY OF _____

_____, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID. DO CERTIFY THAT _____ __ AND . OF SAID CORPORATION, IS PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING INSTRUMENT, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED AND DELIVERED THIS INSTRUMENT AS THEIR OWN FREE AND VOLUNTARY ACT AND AS THE FREE AND VOLUNTARY ACT OF SAID CORPORATION, AS GIVEN UNDER MY HAND AND NOTARIAL SEAL,

THIS ____ DAY OF ____ A.D. ____ MY COMMISSION EXPIRIES _____

NOTARY PUBLIC

WE, W-T LAND SURVEYING, INC, IN ACCORDANCE WITH THE PA 87-08705 (THE PLAT ACT) DO HEREBY DESIGNATE:

AS THE PERSON WHO MAY RECORD THE SUBDIVISION PLAT, A TRUE COPY OF WHICH HAS BEEN RETAINED BY US TO ASSURE NO CHANGED HAVE BEEN MADE TO SAID PLAT. DATED THIS _____ DAY OF _____ A.D.___.

FRANJO I. MATICIC - PLS #035-003556 EXPIRES 11/30/2016 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004387

WILL COUNTY TAX MAPPING CERTIFICATE

STATE IF ILLINOIS COUNTY OF WILL

___, DIRECTOR OF TAX MAPPING AND PLATTING OFFICE DO HEREBY CERTIFY THAT I HAVE CHECKED THE PROPERTY DESCRIPTION ON THIS PLAT AGAINST AVAILABLE COUNTY RECORDS AND FIND SAID DESCRIPTION TO BE TRUE AND CORRECT. THERE PROPERTY HEREIN DESCRIBED IS LOCATED ON TAX MAP # ______ AND IS IDENTIFIED AS PERMANENT TAX INDEX NUMBER

DATED THIS _____ DAY OF _____ A.D. ____

(DIRECTOR)

WILL COUNTY RECORDER'S CERTIFICATE

COUNTY, ILLINOIS, ON THE ____ DAY OF _____ A.D. ____, AT ____ O'CLOCK __.M.,

STATE IF ILLINOIS) COUNTY OF WILL) THIS INSTRUMENT _____, WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF WILL

WAS RECORDED IN BOOK _____ OF PLATS ON PAGE _____

WILL COUNTY CLERK'S CERTIFICATE

STATE IF ILLINOIS) COUNTY OF WILL)

, COUNTY CLERK OF WILL COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID CURRENT TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT.

I FURTHER CERTIFY THAT I HAVE RECEIVED ALL STATUTORY FEES IN CONNECTION WITH THE ANNEXED PLAT.

THIS _____ DAY OF ______ A.D. _____

SURVEYORS CERTIFICATE

STATE OF ILLINOIS) COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, FRANJO I. MATICIC, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3556, HAVE SURVEYED AND SUBDIVIDED THE FOLLOWING DESCRIBED PROPERTY:

THE EAST 248.07 FEET OF THE SOUTH 350.00 FEET, EXCEPT THE EASTERLY 60 FEET THEREOF, OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 2, TOWNSHIP 45 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN WILL COUNTY, ILLINOIS.

PARCEL 2

THE EAST 264.29 FEET OF LOT 22, IN TINLEY CROSSINGS CORPORATE CENTER UNIT 1, BEING A SUBDIVISION OF PART OF THE NORTH HALF OF SECTION 2. TOWNSHIP 35 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED OCTOBER 16, 1998 AS DOCUMENT NUMBER R98-122885, IN WILL COUNTY, ILLINOIS.

PARCEL 3

LOT 32, IN TINLEY CROSSINGS CORPORATE CENTER PHASE 3, A RESUBDIVISION OF PART OF THE NORTH HALF OF SECTION 2, TOWNSHIP 35 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN WILL COUNTY, ILLINOIS ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 27, 2001 AS DOCUMENT NO. R2001021137.

I FURTHER CERTIFY THAT IRON PIPES SHALL BE SET AT ALL LOTS CORNERS, EXCEPT WHERE CONCRETE MONUMENTS ARE INDICATED, AND THAT THE PLAT HEREON DRAWN CORRECTLY REPRESENTS SAID SURVEY AND SUBDIVISION. DIMENSIONS ARE GIVEN IN FEET AND DECIMAL PARTS THEREOF.

I FURTHER CERTIFY THAT THIS LAND IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF TINLEY PARK.

I FURTHER CERTIFY THAT ACCORDING TO OUR INTERPOLATION OF THE FLOOD INSURANCE RATE MAP THIS SITE IS LISTED AS BEING IN A ZONE "X", DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN" PER F.E.M.A. PANEL NO. 17197C0216F DATED NOVEMBER 6, 2000.

GIVEN UNDER OUR HAND AND SEAL THIS _____ DAY OF _____ A.D.___. AT HOFFMAN ESTATES,

W-T LAND SURVEYING, INC. ILLINOIS

FRANJO I. MATICIC - PLS #035-003556 EXPIRES 11/30/2016

ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004387

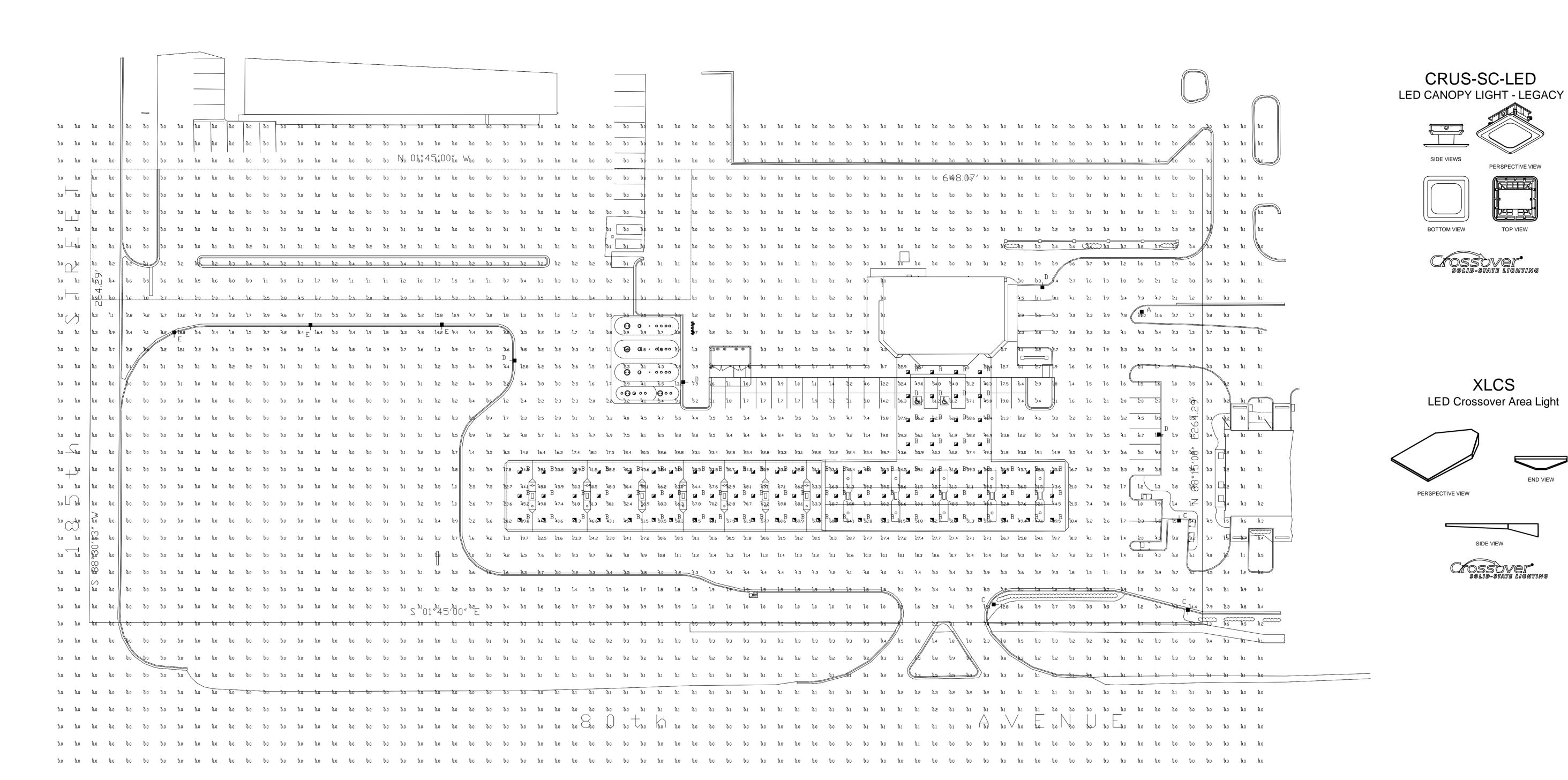
LAND CON W-T

 \overline{S} PF JBI _ ഗ RELIMINAR' EDWA

SCALE: 1"=30' DRAWN: MWO BOUNDARY: FIM FIELD WORK : BSA CHECK: S14266 JOB :

SUB-2

OF TWO SHEETS



Luminaire Sche	dule							
Symbol	Qty	Label	Arrangement	Description	LLF	Lumens/Lamp	Arr. Lum. Lumens	Arr. Watts
	1	А	SINGLE	XLCS-5-LED-HO-CW-SINGLE-16' MT HGT EXISTING LOCATION	1.000	N.A.	15674	138.2
	88	В	SINGLE	CRUS-SC-LED-SS-CW-UE	1.000	N.A.	13554	114
_	3	С	SINGLE	XLCS-FT-LED-SS-CW-SINGLE 16' MT HGT EXISTING LOCATION	1.000	N.A.	11383	96.2
	4	D	SINGLE	XLCS-FT-LED-SS-CW-SINGLE 16' MT HGT	1.000	N.A.	11383	96.2
	3	E	SINGLE	XLCS-3-LED-HO-CW-SINGLE 16' MT HGT	1.000	N.A.	13927	141.7

Calculation Summary										
Label	СаІсТуре	Units	Avg	Max	Min	Avg/Min	Max/Min			
ALL CALC POINTS	Illuminance	Fc	4.85	70.7	0.0	N.A.	N.A.			
CANOPY	Illuminance	Fc	52.77	70.7	17.8	2.96	3.97			
INSIDE CURB	Illuminance	Fc	7.01	31.8	0.5	14.02	63,60			

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted.

Total Project Watts Total Watts = 11268.7



SCALE: 1"=30'

10000 ALLIANCE RD. CINCINNATI, DHID 45242 USA (513) 793-3200 * FAX (513) 793-6023

LIGHTING PROPOSAL LO-128636

SPEEDWAY
18460 80th AVE
TINLEY PARK,IL

BY:MWE DATE:7-30-15 REV: SHEET
OF 1

LED AREA LIGHTS - LSI SLICE SMALL (XLCS)





DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XLCS										
		Type 3	umens (Nom Type FT	inal) Type 5	Watts (Nominal)					
Cool	SS	10100	11400	11400	97					
2 ≥	Н0	13900	15500	15700	140					
tral	SS	9800	9200	9300	97					
Neutral White	Н0	13800	12100	12200	140					

LED Chips are frequently updated therefore values may increase.

US & Int'l. patents pending

SMARTTEC™ - LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.

ENERGY SAVING CONTROL OPTION - DIM - 0-10 volt dimming enabled with controls by others. Available with High Output (HO) drive current only.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000K), or Neutral White (4000K) color temperature, 70 CRI.

DISTRIBUTION/PERFORMANCE - Types 3, FT and 5. Exceptional uniformity creates bright environment at lower light levels. Internal Louver (IL) option available for improved backlight control without sacrificing street side performance for FT distribution.

HOUSING - One-piece, die-formed aluminum housing contains factory prewired driver. Wiring access door (with safety lanyard) located underneath.

OPTICAL UNIT - Clear tempered flat glass lens permanently sealed to weather-tight aluminum optic frame creates an IP65 rated optical unit (includes pressure-stabilizing breather).

MOUNTING - Tapered rear design allows fixtures to be mounted in 90° and 120° configurations without the need for extension arms. Use with 3" reduced drilling pattern. A round pole plate is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-*-CLR). Proprietary pole quick mount accessories available with horizontal mounting or fixed 15° angled mounting (PQMH-KIT-CLR and PQM15-KIT-CLR) for mounting to square poles. See Accessory Ordering Information chart for all brackets.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277 VAC (50/60Hz input), and 347-480 VAC, Optional buttontype photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified).

DRIVER - Available in SS (Super Saver) and HO (High Output) drive currents. Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip[®] polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Available in black, bronze and white. Other standard LSI finishes available. Consult factory.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT (in carton) - One fixture: 17.5 lbs. (7.9 kg). Packed two per carton: 30 lbs. (13.6 kg).

LISTING - UL listed to U.S. and international safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements



















06/08/15

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Fixtures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 1.5G requirements.



Project Name Fixture Type Catalog # LSI INDUSTRIES INC.

LED AREA LIGHTS - LSI SLICE SMALL (XLCS)



LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: XLCS 5 LED SS CW UE BLK PCI120

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
XLCS	3 - Type III 5 - Type V FT - Forward Throw	LED	SS - Super Saver HO -High Output	CW - Cool White (5000K) NW - Neutral White (4000K)	UE - Universal Voltage (120-277V) 347-480 Universal Voltage (347-480V)	BLK - Black BRZ - Bronze WHT - White	DIM - 0-10V Dimming (from external signal) available with High Output (HO) drive current only Button Type Photocells PCI120 - 120V PCI208-277V - 208-277V PCI347 - 347V IL - Internal Louver (available with FT distribution only)

LUMINAIRE EPA CHART - XLCS			
-	Single	0.4	
	D180°	0.8	
-	D90°	0.6	
-	T90°	1.4	
	TN120°	1.4	
=×=	Q90°	1.6	
I			

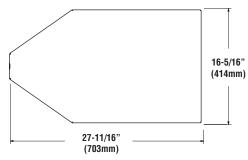
Note: House Side Shield adds to fixture			
EPA. Consult Factory.			

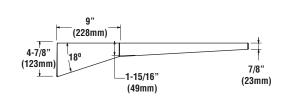
ACCESSORY ORDERING INFORMATION	(Accessories are field installed)		
Description	Order Number	Description	Order Number
BKS-XBO-WM-*-CLR Wall Mount Bracket	382132CLR	DFK208, 240 Double Fusing (208V, 240V)	DFK208, 240 ²
XLCS-3/FT-HSS House Side Shield (Black only)	603162BLK ¹	DFK480 Double Fusing (480V)	DFK480 ²
X4RPP Round Pole Plate for 4" Poles	379967CLR	FK347 Single Fusing (347V)	FK347 ²
X5RPP Round Pole Plate for 5" Poles	379968CLR	PQMH-KIT-CLR Square Pole Quick Mount Horizontal Bracket	582328CLR
FK120 Single Fusing (120V)	FK120 ²	PQM15-KIT-CLR Square Pole Quick Mount Bracket w/fixed 15° /	Angle 582329CLR
FK277 Single Fusing (277V)	FK277 ²		

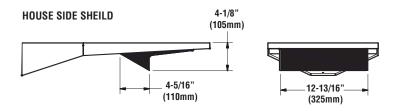
FOOTNOTES:

- 1 House Side Shields add to fixture EPA. Consult factory.
- 2 Fusing must be located in the hand hole of pole.

DIMENSIONS









Project Name _____ Fixture Type ______

Catalog #_____

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