PLAN COMMISSION STAFF REPORT

AUGUST 20, 2015

SPEEDWAY

SUBSTANTIAL DEVIATION OF TINLEY CROSSINGS COORPORATE CENTER PLANNED UNIT DEVELOPMENT, REZONING, SITE PLAN REVIEW, PLAT APPROVAL

Applicant
Melanie Foss on behalf of Speedway

Property Location
18460 80th Avenue

Parcel Size
144,754 SF ±
3023 ac ±

Zoning
M-1 PUD (Parcels 2 &3) Tinley Crossings PUD
R-1 upon annexation (Parcel 1)

Approval Sought
Rezoning, Special Use Permit for a Substantial Deviation, Site Plan and Plat Approval.

Requested Action
Assign two Commissioners to meet with the Applicant in a Work Session.

Project Planner
Paula J. Wallrich, AICP
Deputy Planning Director

EXECUTIVE SUMMARY

Speedway LLC, is proposing an expansion of their existing facility at 18460 80th Avenue that will involve the annexation of a 1.51 acre parcel immediately south of the existing station (8045 185th Street). This lot is currently part of a larger parcel in the County of Will and will need to be subdivided prior to annexation. Upon annexation, the property will be consolidated through a plat of subdivision with the two existing parcels which comprise the gas station and car wash. The Applicant is requesting a rezoning of the annexed parcel to M-1 General Manufacturing. As part of the Tinley Crossings Corporate Center Planned Unit Development (TCCC-PUD), the proposed project will be considered a Substantial Deviation of the approved Planned Unit Development (PUD) and therefore require a Special Use Permit and Site Plan Review.

Speedway proposes to add seven (7) new fuel dispensers which will require the expansion of the fuel canopy. An additional access will be provided on 185th Street and additional storm water detention will be created on the annexed parcel to compensate for the new improvements to the site. A new trash enclosure, landscaping, lighting, signage and underground fuel tanks are also being proposed.

The Will County Highway Department has jurisdiction of 80th Avenue; preliminary plans for the future widening of 80th Avenue have been provided and impacts to the subject property have been noted. A cash-in-lieu of payment will be required for sidewalk improvements on 185th Street and a portion of 80th Avenue.

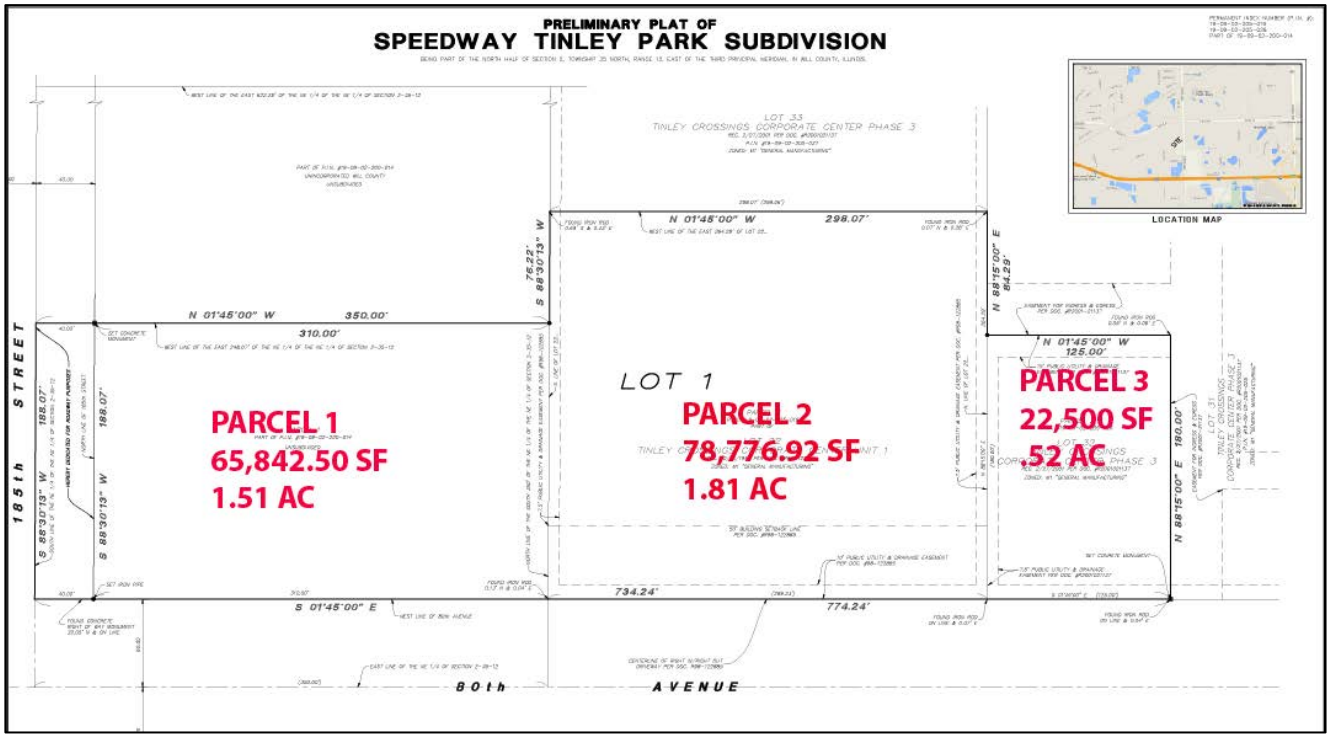
The station currently has three ground mounted signs, two of which have manual changeable copy that will need to be removed or changed to electronic message boards; if the Applicant chooses to install electronic message boards all temporary signs must be removed.

Upon annexation of the southern parcel, the property will be considered for rezoning to M-1, General Manufacturing. The parcel in its current configuration does not meet minimum lot size (5 acres) or lot depth (200') requirements, therefore an exception will be required to allow for a lot 1.51 acres in size with a lot depth of 188.07'. The property is also located in the Urban Design Overlay District (UDO) which establishes a maximum 20' front yard setback. A 34' exception will also need to be considered by the Commission as part of this review.

SUMMARY OF OPEN ITEMS

	OPEN ITEM	SUGGESTED RESOLUTION
1.	Existing temporary outdoor sales area does not meet Ordinance requirements.	Designate an area on the site plan for temporary outdoor sale displays and obtain necessary approvals.
2.	The proposed improvements do not meet lot area, lot depth and front yard setback requirements of the M-1 and Urban Design Overlay District.	Consider approval of site deficiencies as exceptions to the M-1 and Urban Overlay District as part of the Substantial Deviation Special Use Permit.
3.	A 6' sidewalk along 80th Avenue and 185th Street will be required; Staff recommends cash in lieu payment. The Overlay District requires opportunities for pedestrian and bicycle access; there is no specific access from the sidewalk on 80th Avenue to the C-Store. Bike racks are encouraged.	Provide cash in lieu payment for sidewalks along 80th Avenue and 185th Street, provide access from the sidewalk on 80th Avenue to the C-Store and bike rakes.
4.	Cross access easement is not provided on the proposed Plat of Subdivision.	Provide appropriate easement on plat
5.	The proposed location for the trash enclosure presents operational issues and is highly visible to the public.	Propose an alternate location for the trash enclosure.
6.	The proposed plans indicate signs that exceed Village regulations.	Within the context of the PUD staff recommends consideration of the proposed canopy signs. Staff encourages discussion regarding the number of ground mounted signs and the enforcement of the removal of temporary signs if electronic message signs are proposed.
7.	Several items related to the proposed Landscape Plan need to be addressed	Address items specified in Staff Report.

EXISTING SITE



The subject property is part of the 165 acre Tinley Crossings Corporate Center PUD which was adopted in 1998. In 1999, the Village approved the site plan for the existing fueling station and convenience store; in 2002 the PUD was amended to allow for a car wash. The subject property consists of three (3) parcels as depicted in the plat above. Parcel 1 is located in unincorporated Will County and will be annexed as part of the proposed project. The fueling station is located on Parcel 2 and comprises five (5) fueling dispensers and a convenience store. Parcel 3 contains a car wash. Both Parcels 2 & 3 are fully developed with pavement and landscape materials. As part of the Substantial Deviation the entire property has been inspected and reviewed for compliance with Village Code.

The existing gas station has right-in/right-out access on 80th Avenue which serves the fueling station and C-store; the car wash shares a full access with the retail/restaurant development to the north. There is a brick wall that provides a buffer along the west and south property lines of Parcel 2. A 5' sidewalk is provided along the 80th Avenue Right-of-Way.

Parcel 1, is part of a 4.5 acre parcel currently used by the Trace, Vandenberg and ATI Ambulance Companies in unincorporated Will County. It does not contain any structures and is currently used for storage of ambulances. As part of the annexation and lot consolidation process, the southern 40' will be dedicated for 185th Street Right-of-Way. With the redevelopment of the parcel the access on 185th Street will be shifted to the east and will function as a shared access between the two parcels.

During a site visit to the property it was discovered that a portion area of the property contained outdoor storage that did not meet ordinance requirements nor had approval been obtained. This area will be redeveloped with the expansion of the canopy, therefore Staff is recommending an area be designated for future temporary sales this is contained, neat, and orderly and meets ordinance requirements. .

<u>Open Item #1</u>: Existing temporary outdoor sales area does not meet Ordinance requirements.

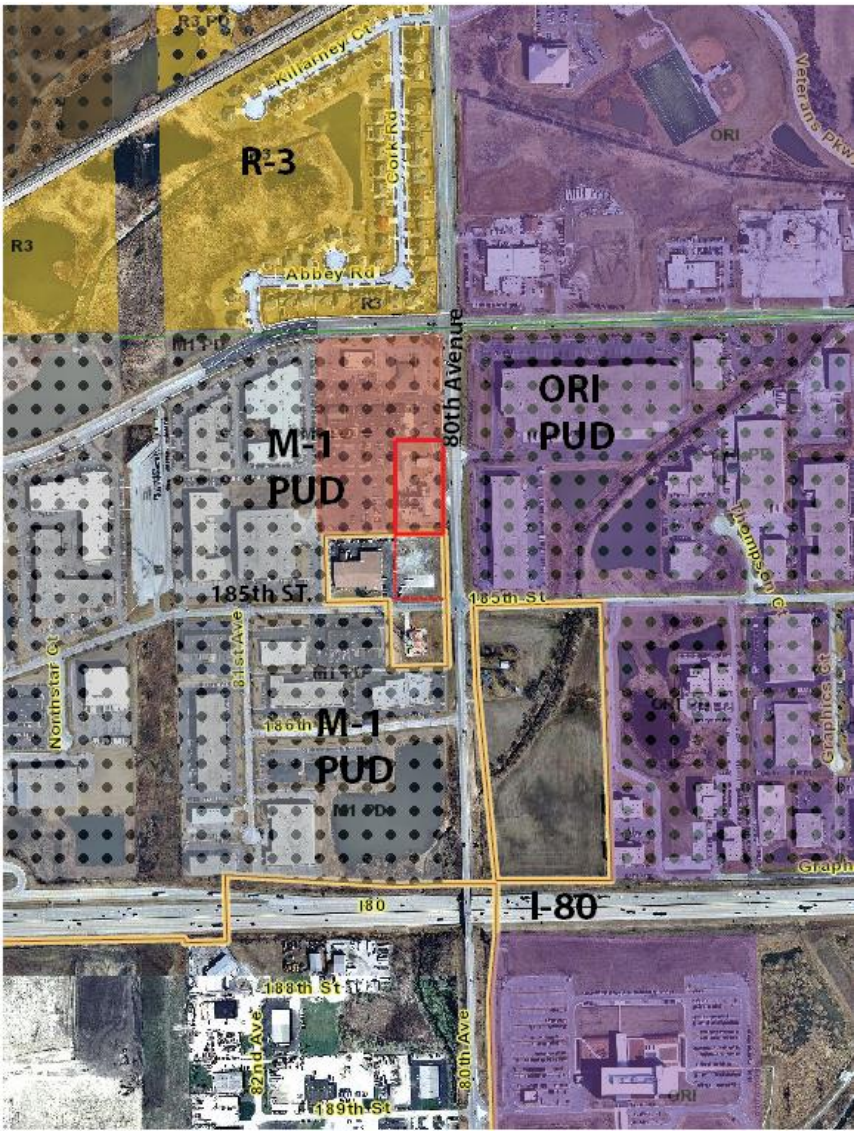
PROPOSED USE & COMPLIANCE WITH THE COMPREHENSIVE PLAN

The Applicant, Speedway, is proposing the expansion of their fueling station located at 18462 80th Avenue. The Applicant proposes to add seven (7) additional fueling dispensers which requires additional area beyond what can be provided on Parcels 2 & 3. The Applicant has therefore entered into a contract for purchase of Parcel 1, which after it is subdivided in the County, the Applicant proposes to annex it to the Village of Tinley Park. Upon annexation the Village will consider its rezoning and consolidation with

Parcels 2 & 3. As a consolidated lot it will be reviewed as a Substantial Deviation of the approved Tinley Crossings Planned Unit Development.

The Village of Tinley Park Comprehensive Plan (2000) identifies this site as light industrial; however the Tinley Crossings PUD identified a "*retail convenience (or variety) stores with or without gas pumps"* as a permitted use within the PUD.

ZONING & NEARBY LAND USES



The existing parcel (Parcel 2 & 3) is zoned M-1 PUD (Tinley Crossings Corporate Center Planned Unit Development) and lies within the Urban Design Overlay District. The property to the north of the parcel is also in the M-1 PUD. Property north of the PUD and 183rd Street is zoned R-3 Single Family Residential and the property to the east is zoned ORI- PUD Office and Restricted Industrial. The property immediately to the south is unincorporated Will County with the M-1 PUD surrounding the County parcel to the west and south. Parcel 1 is located in Will County. The Applicant is requesting Parcel 1 be rezoned to M-1 PUD upon annexation.

When Tinley Crossings was approved in 1998, the Development Agreement outlined the development standards for the eastern 12 acres (shaded in pink in the diagram to the right) allowing: "*ancillary business services which are primarily for the convenience of the persons and firms located within the development, provided that (1) such business uses are beneficial to the overall planned development (2) will not be injurious to adjacent or neighboring properties, (3) such uses are not available within reasonable proximity of the Subject Property, (4) are gauged primarily for the service and convenience of the business in the planned unit development, and (5) are design as a unit of limited size and made an integral part of the planned unit development, as well as the following additional uses: dry cleaning establishments; printing and copying establishments; banks and financial institutions; barber shops and beauty parlors;* ***retail convenience (or variety) stores with or without gas pumps;*** *restaurants, including drive-in."*

The Agreement further stated that any additional land obtained by the owner or developer adjacent to the Subject Property, would be governed by the provisions of the Agreement once such additional land is annexed, rezoned and an amendment to the PUD has been granted, provided no additional lots were created and that the additional land only be added to existing lots. Parcels 2 & 3 were approved as part of the original Tinley Crossings Corporate Center PUD. They were also part of the eastern 12 acres contemplated in the Development Agreement for ancillary uses. The annexation and consolidation of Parcel 1 with Parcels 2 & 3, is consistent with the parameters set forth in the approved Development Agreement between the Village and the original developer of the PUD (T.C.B. Development).

The table below outlines the bulk regulations for the M-1 District. There were no specific bulk regulations outlined for this property in the Development Agreement, rather the Agreement stated that any development of the property shall "*comply fully with a specific site plan or plans, including street and parking lot lighting, architecture, sign requirements and landscape plans, which subsequent site and landscape plan or plans shall be subject to the approval of the Village. Also, the Village shall retain the right to approve the number and height of buildings, approval of the architectural plans for the exterior of any buildings including the exterior building materials, parking, landscaping, lighting, street layout, provisions for water and sewer service, signs and location of any new detention/retention facilities and other proposed public improvement on said portion consistent with the then current Village ordinances.*

Staff performed the analysis of the subject property as a consolidated parcel (consolidated Parcels 1, 2 & 3), rather than as individual properties. The consolidated parcel meets all M-1 requirements with the exception of two: lot area and lot depth. The analysis is complicated by the fact that it is also located in the Urban Design Overlay District (UDO), which by intent is designed to promote non-motorized and public transportation movement to, within, and among properties. The location of the existing convenience store and fueling dispenser canopy predates the UDO District. Aspects of the District have been incorporated where possible; however the setbacks of the existing building and canopy will necessarily need to be addressed as an exception to the Urban Design Overlay District within the context of a PUD.

The minimum lot area in the M-1 district is 5 acres. Parcels 2 & 3 comprise 2.33 acres; with the addition of Parcel 1, the total acreage is 3.84 acres, which is below minimum lot area standards. As this is part of a Planned Unit Development a variance is not required, however it is brought to the attention of the Plan Commission as an exception to the Zoning Ordinance. The minimum lot depth in the M-1 District is 200'; portions of the consolidated lot measure 180' in depth. (Parcel 2 has a lot depth of 256'.) The exceptions to the M-1 Zoning District are noted in bold.

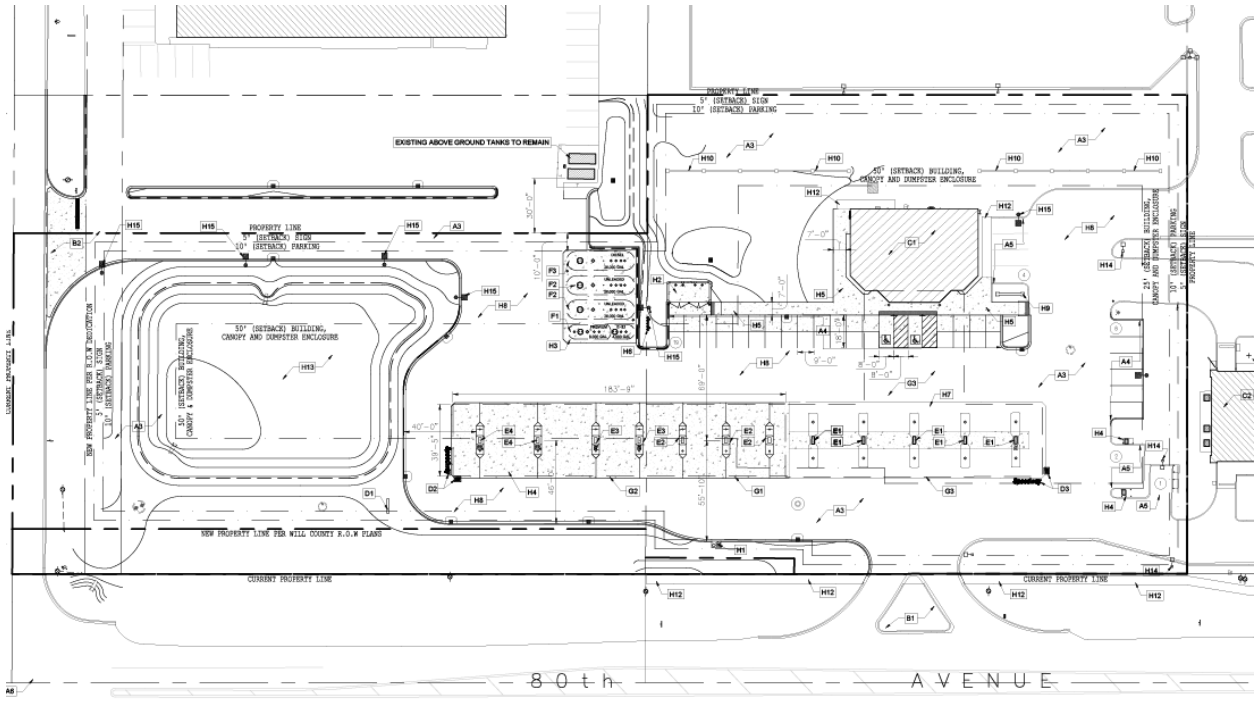
M-1, GENERAL MANUFACTURING		
VILLAGE REGULATION	**DIMENSION REQUIRED**	**PETITIONER'S DIMENSION (consolidated parcel)**
Front Yard Setback	50' minimum	54' (canopy)
Side Yard(s) Setback	25' /50 (total of 2)	69'/249'
Rear Yard Setback	30' minimum	62'
Maximum Building Height	65'	20.5'
Lot Area Minimum	5 acres	**3.84 acres**
Lot Width Minimum	200'	773.07'
Lot Depth Minimum	200'	**180.00'**
URBAN DESIGN OVERLAY DISTRICT		
Front Yard Setback	20' max	**54'** (canopy)

Traditionally an overlay district supersedes the underlying zoning district; however the Urban Design Overlay District is silent with respect to lot area and depth. The UDO District does however restrict the front yard setback to a maximum of 20 feet. The setback of the expanded canopy is somewhat limited by the location of the existing canopy which has a 54' setback from 80th Avenue. A point of note is that with the future widening of 80th Avenue, additional right-of-way will be taken from this property which will reduce the front yard setback to 25' on Parcel 1 and 44' on a portion of Parcel 2. As part of the PUD, this increase in proposed setback is considered an exception to the PUD rather than a variance. This exception has also been noted in bold in the table above.

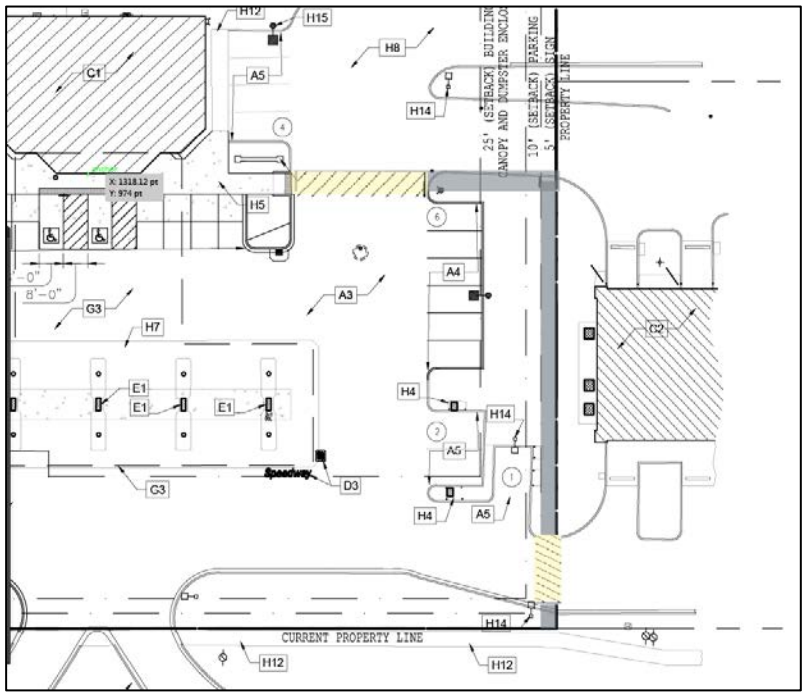
The requested rezoning for Parcel 1 to M-1 upon annexation, is consistent with the zoning of the adjacent parcels and the Tinley Crossings Corporate Center PUD. It provides consistent zoning and landuse along the west side of 80th Avenue from 183rd to 185th ; it was also part of the zoning/landuse contemplated with the original PUD approval for this area. The annexation of Parcel 1 and the expansion of the fueling dispensers provides for an additional point of access (185th) and extension of the sidewalk along 80th Avenue which is consistent with the goals of the Urban Overlay District to accommodate pedestrian access.

<u>Open Item #2</u>: The proposed improvements do not meet lot area, lot depth and front yard setback requirements of the M-1 and Urban Design Overlay District.

GENERAL SITE PLAN REVIEW



The Urban Overlay District requires each site to "*provide opportunities for the public to bike, walk, drive, or take public transportation to, among, and within the development while minimizing the conflicts between these methods.*" A sidewalk exists along the 80th Avenue frontage of Parcels 2 & 3. This sidewalk will need to be extended across the 80th Avenue and 185th Street frontages of Parcel 1. Due to the future widening of 80th Avenue staff recommends cash-in-lieu of payment be made for the extension of the sidewalk along 80th Avenue and along 185th Street.



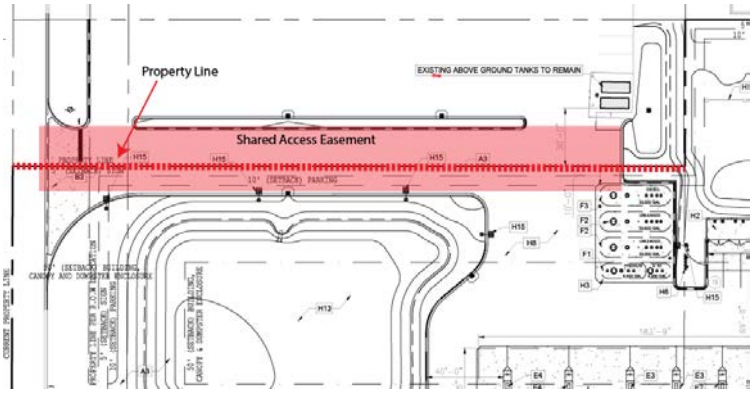
Consideration should also be made for pedestrian access from the sidewalk along 80th Avenue to the station. Staff has recommended a pedestrian path in the diagram which would include striping a crosswalk across two access ways.

A bike trail will be constructed along the east side of 80th Avenue as part of future ROW improvements; therefore Staff encourages the provision of bike rakes on site.

Open Item #3: ***A 6' sidewalk along 80th Avenue and 185th Street will be required; Staff recommends cash-in-lieu payment. The Overlay District requires opportunities for pedestrian and bicycle access. Provide access from the sidewalk on 80th Avenue to the site. Bike rakes are encouraged.***

CIRCULATION

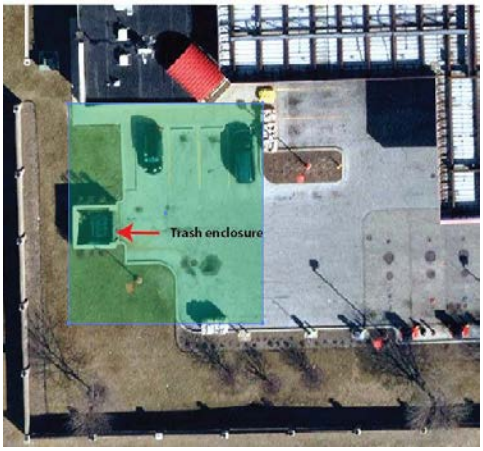
With the annexation of Parcel 1, another point of access is provided for the subject property at 185th Street. The plans indicate that the parcel west of the annexed parcel will then close their existing point of access and create a shared access with Parcel 1. The appropriate easement will need to be recorded with the plat indicating a cross access easement.

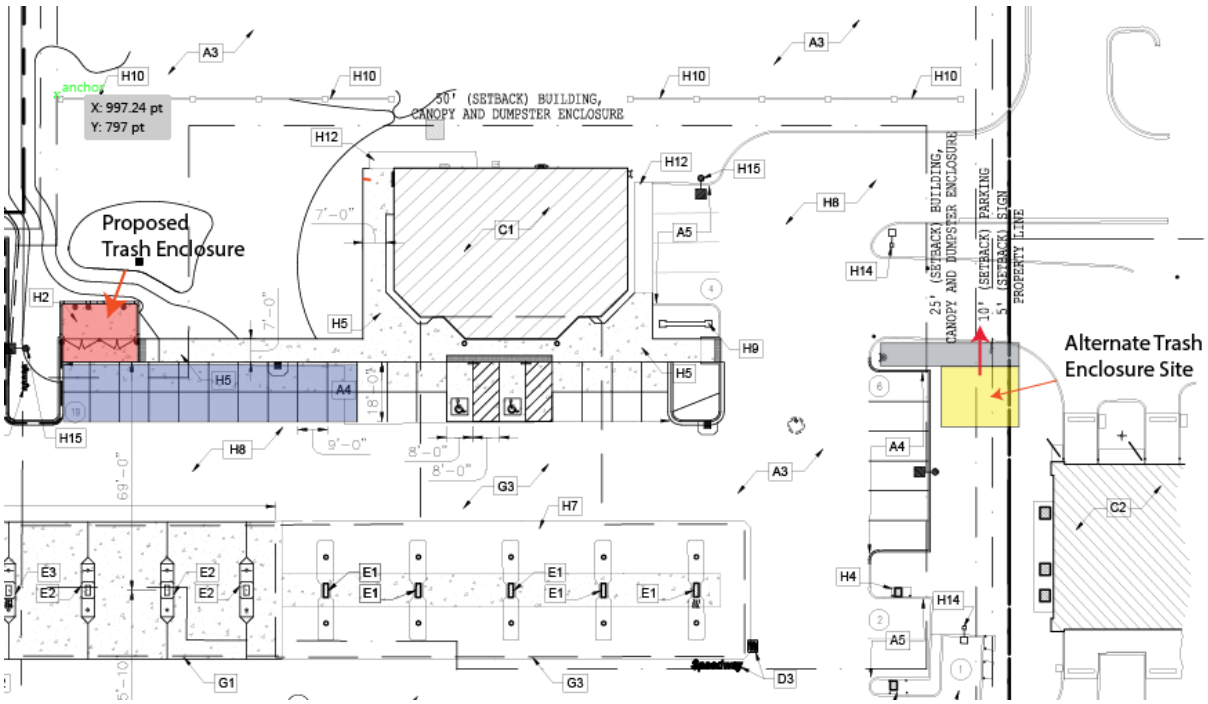


Open Item #4: Cross access easement is not provided on the proposed Plat of Subdivision.

PARKING/TRASH ENCLOSURE

The current provision of 21 parking spaces meets ordinance requirements for the 3,100 square foot C-Store. Since there is no expansion or change of use proposed for the C-Store, no additional parking is required. The Applicant has stated that due to congestion experienced at the current facility they have planned for an additional 10 parking spaces for a total of 31 parking spaces. The proposed parking is aligned along the front of the convenience store. The south side of the C-Store has been revised to accommodate the additional parking as well as the area south of the carwash. The paved area south of the C-store will be removed (shaded in green) and is proposed to be landscaped. The trash enclosure will be located at the south end of the new proposed line of parking.





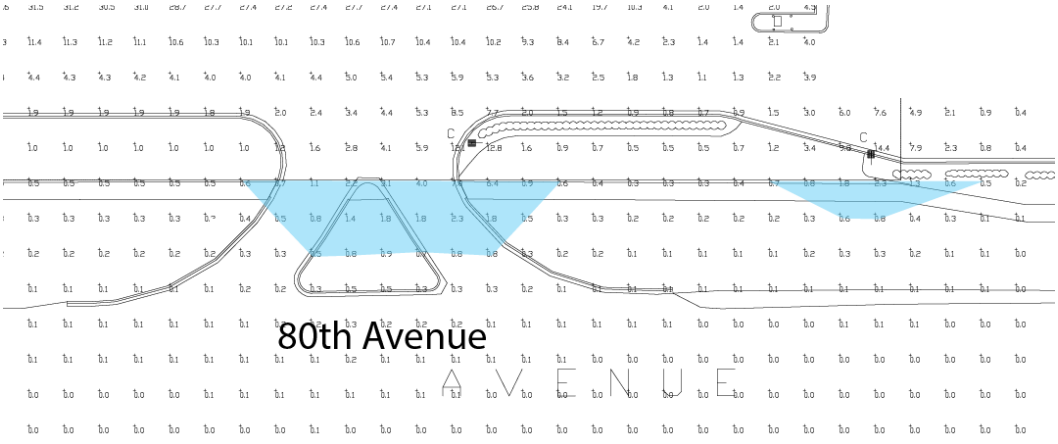
Staff has expressed concern regarding the proposed location of the trash enclosure. The Applicant has located it in a highly visible location with parking spaces directly in front of the gates that may compromise collection operations. During several site visits to the facility, staff found the gate open and the trash enclosure exposed. The gates are actually propped open as seen in the photograph.

Staff believes there are other locations that may be less conspicuous and unsightly to the general public. One recommendation is provided in yellow in the diagram above.

<u>Open Item #5</u>: The proposed location for the trash enclosure presents operational issues and is highly visible to the public.

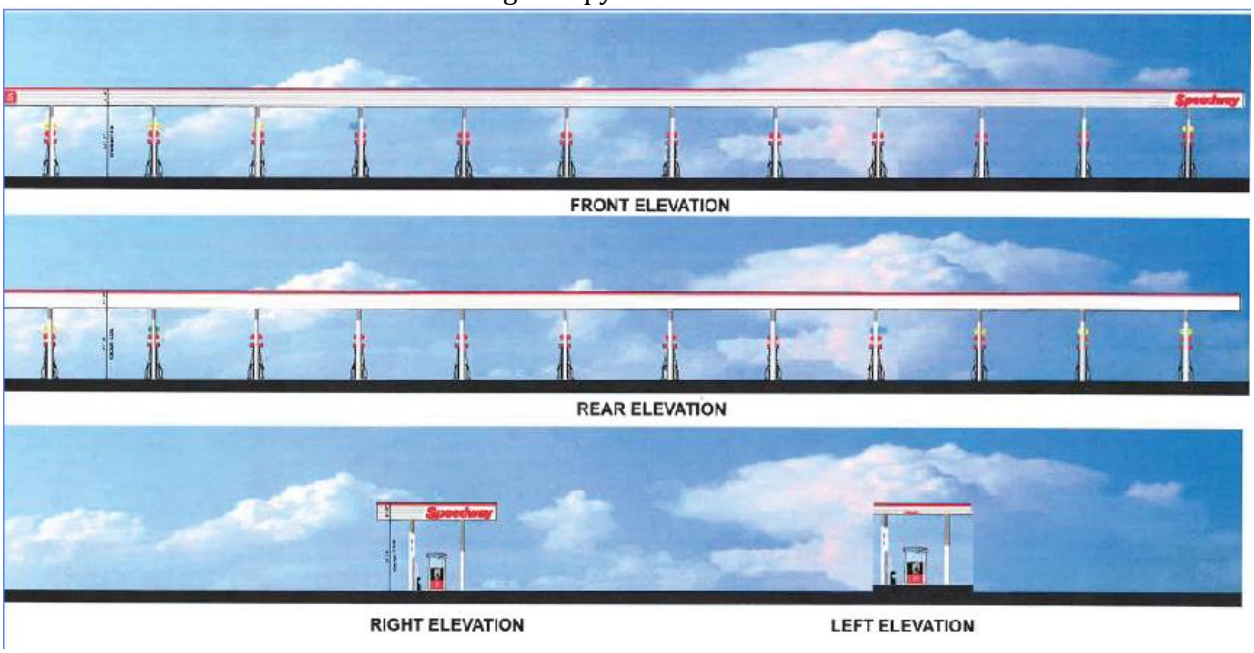
LIGHTING

With the expansion of the canopy, additional lighting will be installed under the canopy and along the drive access to 185th Street. One of the existing lights at the entrance to 80th Avenue will be removed. The Village Zoning Ordinance states that the light on the lot "*shall not cause illumination in excess of .5 foot candle when measured in a residential district.*" Village policy has been to enforce this limit at all property edges. The Photometric Plan submitted by the Applicant indicates two small areas where existing lights exceed ordinance foot candle limits. There are no residential properties in the proximity of these areas; therefore Staff is comfortable with maintaining these current light levels. The lighting will match existing fixtures.

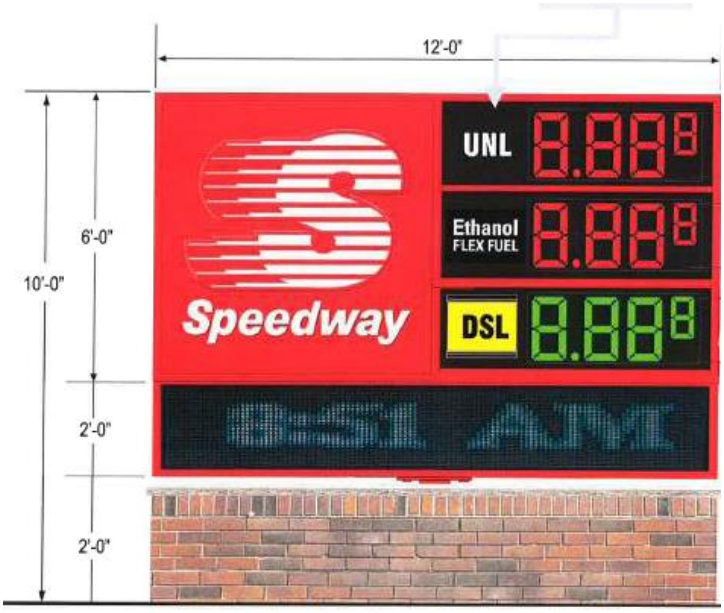


ARCHITECTURE

The existing 16.5 foot tall fueling dispenser canopy will be extended to the south an additional 183.75'. The canopy extension will be the same width (39.5') as the existing canopy. The design/color of the canopy extension will be the same as the existing canopy.



SIGNAGE



The proposed plan indicates the removal of the existing ground mounted sign along 80th Avenue. The Applicant has requested a new ground mounted sign to be located further south on the 80th Avenue frontage. The new sign proposes an electronic message band in addition to an electronic gas price sign. Electronic gas price signs are permitted in the Sign Regulations; however they are limited to twenty (20) square feet in area. The Ordinance is unclear as to whether this is per sign face or if it is a total sign area limitation. The proposed plan is not sufficiently labeled to determine the sign area for the gas prices.

The electronic message board on this ground mounted is also permitted per Ordinance however it is limited to no more than 20% of the total single elevation area of the monument sign. The

proposed electronic message band represents 25% of the total single elevation area of this sign. The Applicant has been informed that if they elect to use an electronic message sign then no other type of temporary signage, including, but not limited to, "For Sale", "For Rent", or "For Lease" signs are allowed. Currently there is a considerable amount of temporary signage on the property as evidenced in the photos below.

There are two (2) other ground mounted signs on the property that include manually changeable message signs. These types of signs are prohibited per the Village Zoning Ordinance (Ordinance 2007-0-024, adopted April 17, 2007). When the ordinance was adopted, existing manually changeable signs were given three (3) years from the day of adoption to be removed or property owners were allowed to replace them with electronic message signs.

If the property owner elected to replace them with electronic message signs they are restricted to the 20% limit and the removal of all temporary signs as outlined above. The Applicant has not provided dimensioned plans for the new electronic message signs. In addition, per Village policy only one ground mounted sign is allowed per right-of-way frontage. There are a total of three (3) ground mounted signs on the property. The property's location on the corner may support two (2) signs, but staff encourages discussion of maintaining three (3) ground mounted signs.

Existing

Proposed

The canopy has several signs proposed for the canopy; these are consistent with the existing canopy signage. The signs approximate 176 square feet in size. Village policy has been to restrict the total sign area to no greater than 120 SF; however the ordinance has conflicting references with respect to sign area in industrial districts. The Ordinance delegates review authority for signs to the Plan Commission as part of the Site Plan Approval process. In addition, within a planned unit development there is inherent flexibility with site issues such as this.

***Open Item #6*: The proposed plans indicate signs that exceed Village regulations.**

LANDSCAPING

The intent of the Village's Landscape Ordinance is to utilize landscape materials to enhance proposed development, soften the impact of parking areas, provide a buffer between land uses, and create an overall quality aesthetic for the site. Bufferyards are required on all property edges per Village Ordinance. The existing development has existing landscaped areas, most of which are well maintained. There are areas however that do not meet Ordinance requirements and/or are dead or need maintenance. The Applicant has not provided requested information regarding existing landscaping therefore the landscape review is incomplete. With respect to the proposed landscape, the following comments apply:

1. The Plant List needs to include information about spacing;
2. Plans should identify quantity, size and type of existing trees and shrubs to remain;
3. Bufferyards must be provided in compliance with Section 158.07 *BUFFERYARD REQUIREMENTS* of the Landscape Ordinance. The east bufferyard needs variety beyond two types of evergreen shrubs in a linear arrangement. Staff recommends utilizing small plant groupings rather than a strictly linear planting arrangement;
4. Street trees must be provided on Parcel 1. Ordinance requires spacing 25' on center; and
5. Bufferyards are lacking required plant material as indicated in the chart below:

LOCATION	REQUIRED BUFFERYD TYPE	REQUIRED WIDTH	PRO-VIDED WIDTH	BUFFERYD LENGTH	REQUIRED UNITS	PROVIDED	DEFICIENCY	COMMENT
West property line	B- commercial to commercial	5' (narrowest classification)	20'+	280'- (175' without fence, 105' with fence)	6 canopy	6 canopy	0 canopy	Length only includes northern portion of parcel where true bufferyard is possible. 105' fence is also present, partially reducing requirements.
					2 understory	2 understory	0 understory	
					27 shrubs	30 shrubs	+3 shrubs	
North property line	B-commercial to commercial	5' (narrowest classification)	20'+	175' (50'+10'+115')	5 canopy	5 canopy	0 canopy	Excluding cross access easements
					2 understory	2 understory	0 understory	
					21 shrubs	22 shrubs	+1 shrubs	
East property line	C- commercial to arterial road	10' (narrowest classification)	18'-20'+	535' (585'-50' entrance)	19 canopy	14 canopy	- 5 canopy	Row of existing shrubs counted as 14.
					8 understory	8 understory	0 understory	
					75 shrubs	90 shrubs (76+14)	+ 15 shrubs	
South property line	B- commercial to collector road	5' (narrowest classification)	20'+	160'	4 canopy	4 canopy	0 canopy	
					1 understory	2 understory	+ 1 understory	
					20 shrubs	34 shrubs	+ 14 shrubs	
Parkway	N/A	N/A	N/A	N/A	12-13	0	12-13 canopy trees	Plan does not indicate species, consideration must be given to utlity lines; locate further west.
TOTAL							- **17-18 canopy**	
							+1 understory	
							+33 shrubs	

<u>Open Item #7</u>: Several items related to the proposed Landscape Plan need to be addressed.

STAFF REVIEW: ENGINEERING, BUILDING AND FIRE DEPARTMENT

The Applicant has satisfied concerns expressed by the Consultant Engineer, Building and Fire Departments.

RECOMMENDATION/RECOMMENDED MOTION

Assign two Commissioners to meet with the Applicant in a work session with Staff.

LIST OF REVIEWED PLANS

Speedway – 18460 80th Ave.
LIST OF SUBMITTED PLANS
RECEIVED AUGUST 3, 2015

Submitted Sheet Name		Prepared By	Date On Sheet
CV	Cover Sheet	CDG	07/31/15
CZ.1	Zoning Site Plan	CDG	07/31/15
CD	Demolition Plan	CDG	07/30/15
CS1	Plot Plan	CDG	07/30/15
CS2	Dimension Plan	CDG	07/30/15
QS-1	Equipment Plan	CDG	07/30/15
QS -2	Equipment Plan Details	CDG	07/30/15
CG-1	Grading Plan	CDG	07/30/15
CG-2	Grading Plan Details	CDG	07/30/15
CG-3	Pre-Post Drainage Plan	CDG	07/30/15
CE-1	Stormwater Pollution Prevention Plan	CDG	07/30/15
CE-2	Stormwater Pollution Prevention Plan Details	CDG	07/30/15
CU-1	Piping and Utilities Plan	CDG	07/30/15
CU-2	Utility Details	CDG	07/30/15
SS.1	Signage Plan	CDG	07/31/15
SS.2	Ground Mount Sign	CDG	01/19/15
SS.3	Existing Car Wash Sign	CDG	07/31/15
SS.4	Existing Store Sign	CDG	07/31/15
LP.1	Landscape Plan	BDG	01/19/15
LP.2	Detailed Landscape Plan	BDG	01/19/15
LP.3	Landscape Plan	BDG	01/19/15
LP.4	Landscape Specs	BDG	01/19/15
CR	Circulation Plan	CDG	07/31/15
IDOT 1	IDOT Details	WT	07/30/15
IDOT 2	IDOT Details	WT	07/30/15
IDOT 3	Specifications	WT	07/30/15
IDOT 4	Specifications	WT	07/30/15
EX-1	Existing Conditions Exhibit	WT	07/30/15
EX-2	Proposed Conditions Exhibit	WT	07/30/15
PS-1	Drainage & Utility Details & Specifications		10/18/11
QS-1	Yard Equipment Installation		12/18/13
CP-1	Pavement & Curbing Details		05/21/14
ELEV	Canopy Elevations	CDG	01/19/15
2E	Dumpster Enclosure		06/06/13
1 of 3	ALTA/ACSM Land Title Survey	WT	
2 of 3	ALTA/ACSM Land Title Survey	WT	
3 of 3	ALTA/ACSM Land Title Survey	WT	
ANX-1	Plat of Annexation	WT	07/29/15
SUB-1	Preliminary Plat of Subdivision	WT	07/29/15
SUB-2	Preliminary Plat of Subdivision	WT	07/29/15
1 of 1	Lighting Proposal	LSI	07/30/15

CDG *Corporate Design & Development Group, LLC* *WT* *W-T Civil Engineering, LLC*
BDG *Brusseau Design Group, LLC* *LSI* *LSI Industries*

LED CANOPY LIGHT - LEGACY™ (CRUS)

Crossover® LED LIGHTING TECHNOLOGY

AC distribution utilizes a reflector which alters the look from a standard S distribution

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.

US & Int'l. patents pending.

HOUSING - Low profile, durable die-cast, aluminum construction, providing a reliable weather-tight seal.

LEDS - Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K color temperature, 70 CRI (nominal).

DRIVE CURRENT - Choice of Very Low Wattage (VLW), Low Wattage (LW) or Super Saver (SS).

OPTICS / DISTRIBUTION - Choice of Symmetrical or Asymmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution of light to vertical and horizontal surfaces.

OPTICAL UNIT - Features an ultra-slim 7/8" profile die-cast housing, with a flat glass lens. Unit is water-resistant, sealed to an IP67 rating. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.

PRESSURE STABILIZING VENT - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

HAZARDOUS LOCATION - Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions (consult factory).

DRIVER - State-of-the-art driver technology superior energy efficiency and optimum light output. Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.

DRIVER HOUSING - Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded silicone gasket.

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

ELECTRICAL - Universal voltage power supply, 120-277 VAC, 50/60 HZ input. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C.

FINISH - Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

INSTALLATION - One person installation. No additional sealant required. Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit. Retro panels are available for existing Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

SHIPPING WEIGHT - 27 pounds (single pack), 48 pounds (double pack).

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

WARRANTY - Limited 5-year warranty.

LISTING - UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.

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

Consult Factory

Class 1, Division 2 – Standard on SS & LW.

T5 Temperature Classification – The surface temperature of this product will not rise above 100°C., within a 40°C ambient.

Gas Groups A,B,C, and D – Group A: Acetylene / Group B: Hydrogen / Group C: Propane and Ethylene / Group D: Benzene, Butane, Methane & Propane.

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

IP67

LSI Industries™ American Innovation Through Technology

Project Name _____ Fixture Type _____

Catalog # _____

01/12/15

LED CANOPY LIGHT - LEGACY™ (CRUS)

Crossover® LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **CRUS SC LED SS CW UE WHT**

Prefix	Distribution[1]	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
CRUS	SC - Standard Symmetric AC - Aymmetric	LED	VLW - Very Low Watt LW - Low Watt SS - Super Saver	CW - Cool White	UE - Universal Voltage (120-277V) 347 - 480V	WHT - White BRZ - Bronze BLK - Black	None

FOOTNOTES:
1- AC distribution utilizes a reflector which alters the look from a standard S distribution.

ACCESSORY ORDERING INFORMATION

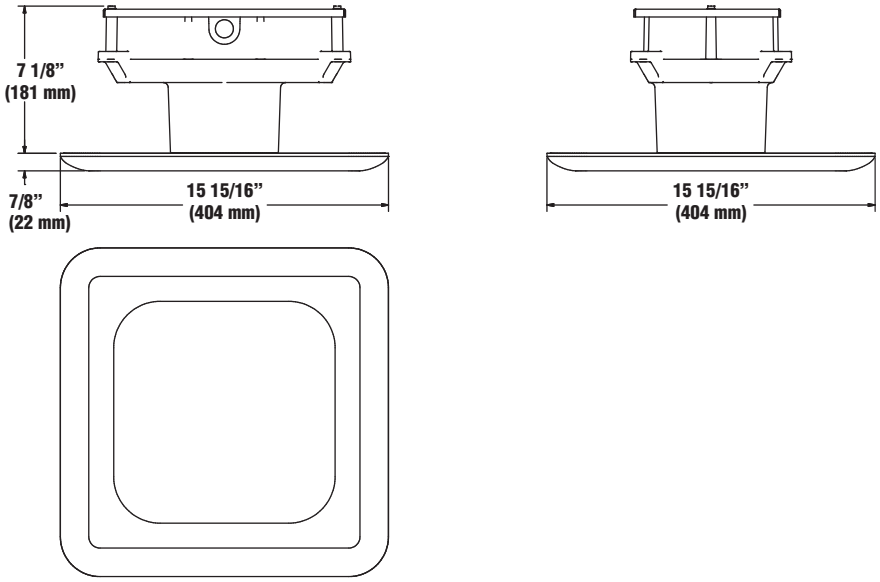
(Accessories are field installed)

Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRU, for 16" Deck Panel	525946
Retrofit Panels - ECTA / SCF to CRU, for 12" Deck Panel	530281
Retrofit 2x2 Cover Panel Blank (no holes)	357282
Retrofit RIC Cover Panel Blank (no holes)	354702

Description	Order Number
Kit - Hole Plugs and Silicone (enough for 25 retrofits)[1]	1320540

1- Consists of (25) 7/8" hole plugs and (1) 10.3 oz tube of RTV

DIMENSIONS



LIGHT OUTPUT - CRUS

		Lumens		Watts		LPW	
		SC	AC	SC	AC	SC	AC
Cool White	VLW - Very Low Watt	8,842	–	79	–	112	–
	LW - Low Watt	10,871	8746	88	83	124	105
	SS - Super Saver	13,554	11,518	114	111	119	104

FINDINGS OF FACT
SPECIAL USE PERMIT – (Including Planned Developments)
PURSUANT TO THE VILLAGE OF TINLEY PARK ZONING ORDINANCE

Section X.J. of the Village of Tinley Park Zoning Ordinance requires that no Special Use be recommended by the Plan Commission unless the Commission finds that all of the following statements, A-G listed below, are true and supported by facts. Petitioners must respond to and confirm each and every one of the following findings by providing the facts supporting such findings. The statements made on this sheet will be made part of the official public record and will discussed in detail during the Plan Commission meetings and will be provided to any interested party requesting a copy.
Please provide factual evidence that the proposed Special Use meets the statements below and use as much space as needed to provide evidence.

A. That the establishment, maintenance, or operation of the Special Use will not be detrimental to or endanger the public health, safety, morals, comfort, or general welfare.

A safe and convenient traffic flow will be provided for customers entering, leaving, and circulating with the lots. In addition a number of design features are being added to the proposed development that will be an improvement to the neighboring use. An aesthetically pleasing expansion is being proposed that will include landscaping and overall site layout. Better onsite circulation is being provided. All of the yard lights and the canopy lights will be LED to reduce the amount of energy consumed and focus the light onto the site itself. The proposed development will improve the general welfare of the area.

B. That the Special Use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish and impair property values within the neighborhood.

The proposed special use permit will enhance property values, business growth, and viability of the adjacent businesses and other surrounding properties. The proposed development includes expanding the auto canopy and allowing for above ground detention. This development will utilize a portion of an underdeveloped piece of a vacant lot at the northwest corner of 185th Street and 80th Ave. Improvements to the onsite circulation with additional fueling positions will allow for safe and convenient traffic flows in and around the site.

C. That the establishment of the Special Use will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district.

The proposed special use will not impede the normal and orderly development and improvements of the surrounding properties. The special use is required for the type of business that is being proposed, i.e. a retail petroleum facility. The property is unique in that it is an expansion to the existing use that currently exists today.

D. That adequate utilities, access roads, drainage, and/or other necessary facilities have been or are being provided.

The existing services are adequate for the proposed development and are being providing.

E. That adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.

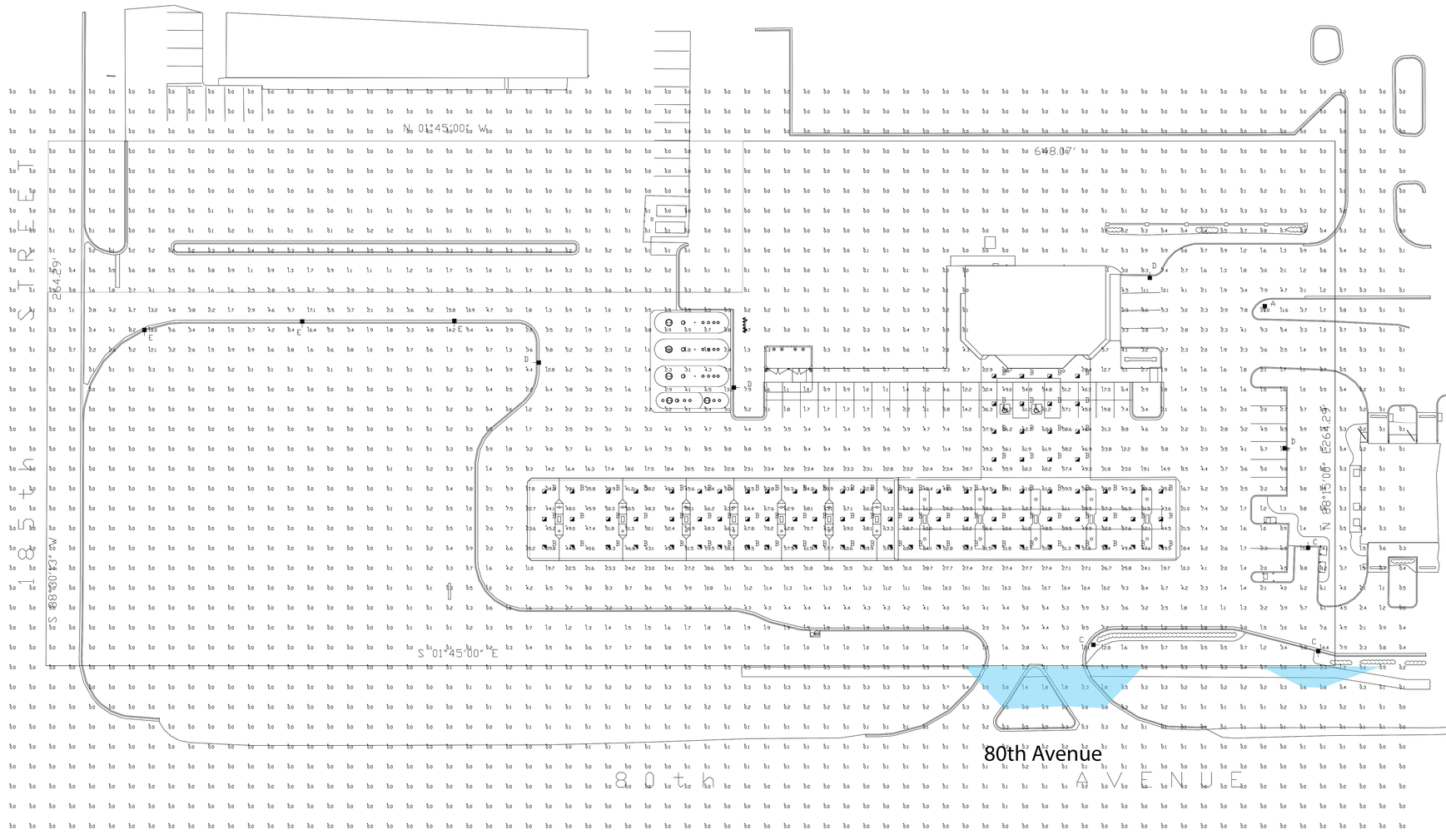
Adequate measures have been taken to provide a safe ingress and egress access drive along 185th Street. Studies have shown that the majority of trips made to fueling facilities like the one proposed are diverted from the existing traffic flow. This is particularly true during the weekday morning and evening commutes when traffic is diverted from the home-to-work and work-to-home trips and commercial deliveries from the business to the vendor and the vendor to the business. Such diverted trips are referred to as pass by traffic. The site is well located with respect to the area roadways. The proposed layout by specifically designing the traffic flow will improve onsite and offsite circulation patterns on both 80th Ave and 185th Street.

F. That the Special Use shall in all other respects conform to the applicable regulations of the district in which it is located, except as such regulations may in each instance be modified by the Village Board pursuant to the recommendation of the Plan Commission.

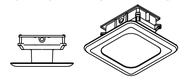
The proposed special use does conform to the applicable regulations of the district in which it is located.

G. The extent to which the Special Use contributes directly or indirectly to the economic development of the community as a whole.

The proposed Special use will contribute directly by providing sales tax generating revenue to the economic development of the community as a whole.

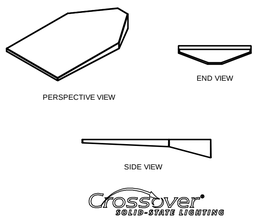


CRUS-SC-LED
LED CANOPY LIGHT - LEGACY



Crossover SOLID-STATE LIGHTING

XLCS
LED Crossover Area Light



Crossover SOLID-STATE LIGHTING

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	LLF	Lumens/Lamp	Arr. Lum. Lumens	Arr. Watts
	1	A	SINGLE	XLCS-5-LED-HO-CW-SINGLE-16' MT HGT EXISTING LOCATION	1.000	N.A.	15674	138.2
	88	B	SINGLE	CRUS-SC-LED-SS-CW-UE	1.000	N.A.	13554	114
	3	C	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	CalcType	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

LSI industries
10000 ALLIANCE RD. CINCINNATI, OHIO 45242 USA
(513) 793-3200 • FAX (513) 793-4803

LIGHTING PROPOSAL LO-128636

SPEEDWAY
18460 80th AVE
TINLEY PARK,IL

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

SCALE: 1"=30' 0 30

STORE No. 1413
DIESEL EXPANSION
18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

OWNER & PROJECT MANAGEMENT:

Speedway®

500 SPEEDWAY DRIVE
ENON, OH 45323
937-864-3000

PROJECT DESIGNER & PERMITTEE:

CORPORATE
DESIGN + DEVELOPMENT
GROUP, LLC
2675 PRATUM AVE.
HOFFMAN ESTATES, ILLINOIS 60192
PH. 224.293.6960
FAX 224.293.6966
WWW.CDG-LLC.COM

CIVIL ENGINEER:

W-T CIVIL ENGINEERING, LLC.
CIVIL AND STRUCTURAL ENGINEERS
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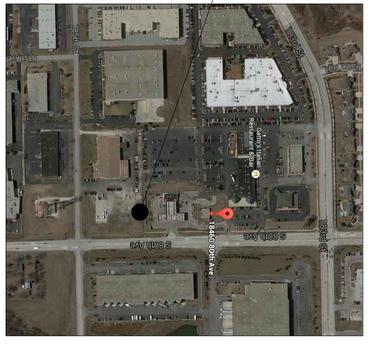
Hoffman Estates, IL. 60192
PH: (224) 293-6333 FAX: (224) 293-6444
www.wtengineering.com
IL. License No.: 184-003492 Exp: 04/30/15

SITE



SITE SPECIFIC

1413-CV	COVER SHEET
1413-CZ	ZONING SITE PLAN
1413-CD	DEMOLITION PLAN
1413-CS1	PLOT PLAN
1413-CS2	DIMENSION PLAN
1413-QS1	EQUIPMENT PLAN
1413-QS2	EQUIPMENT PLAN DETAILS
1413-CG1	GRADING PLAN
1413-CG2	GRADING PLAN DETAILS
1413-CG3	PRE-POST DRAINAGE PLAN
1413-CE1	STORM WATER POLLUTION PREVENTION PLAN
1413-CE2	STORM WATER POLLUTION PREVENTION PLAN DETAILS
1413-CU1	PIPING & UTILITIES PLAN
1413-CU2	UTILITY DETAILS
1413-SS.1	SIGNAGE PLAN
1413-SS.2	GROUND MOUNT SIGN
1413-SS.3	EXISTING CAR WASH
1413-SS.4	EXISTING STORE SIGN
1413-LP.1	LANDSCAPE PLAN
1413-LP.2	LANDSCAPE DETAILS
1413-LP.3	LANDSCAPE PLAN
1413-LP.4	LANDSCAPE SPECS
1413-CR	CIRCULATION PLAN
1413-IDOT1-2	IDOT DETAILS
1413-IDOT3-4	SPECIFICATIONS
1413-EX-1	EXISTING CONDITIONS EXHIBIT
1413-EX-2	PROPOSED CONDITIONS EXHIBIT
1413-PS-1	TYPICAL SERVICE STATIONS

CIVIL SUPPORT

STD-QS-1
STD-CP-1

STRUCTURAL BUILDING

STRUCTURAL SUPPORT

ARCHITECTURAL BUILDING

1413-ELEV CANOPY ELEVATIONS

ARCHITECTURAL SUPPORT

STD-SS-2E QUIK-BRIK DUMPSTER ENCLOSURE

PLUMBING & MECHANICAL BUILDING

PLUMBING & MECHANICAL SUPPORT

ELECTRICAL BUILDING

ELECTRICAL SUPPORT

THIRD PARTY ENGINEERING SUPPORT

#S14266 (PAGE 1 of 3)	ALTA/ACSM LAND TITLE SURVEY (PREPARED BY W-T LAND SURVEYING, INC.)
#ANX-1 (PAGE 1)	PLAT OF ANNEXATION (PREPARED BY W-T LAND SURVEYING, INC.)
#SUB-1 (PAGE 1 of 2)	SPEEDWAY TINLEY PARK SUBDIVISION PLAT (PREPARED BY W-T LAND SURVEYING, INC.)
LO-128636 (PAGE 1)	PHOTOMETRIC PLAN (PREPARED BY LSI INDUSTRIES)

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JOB# 01-14

Speedway®

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

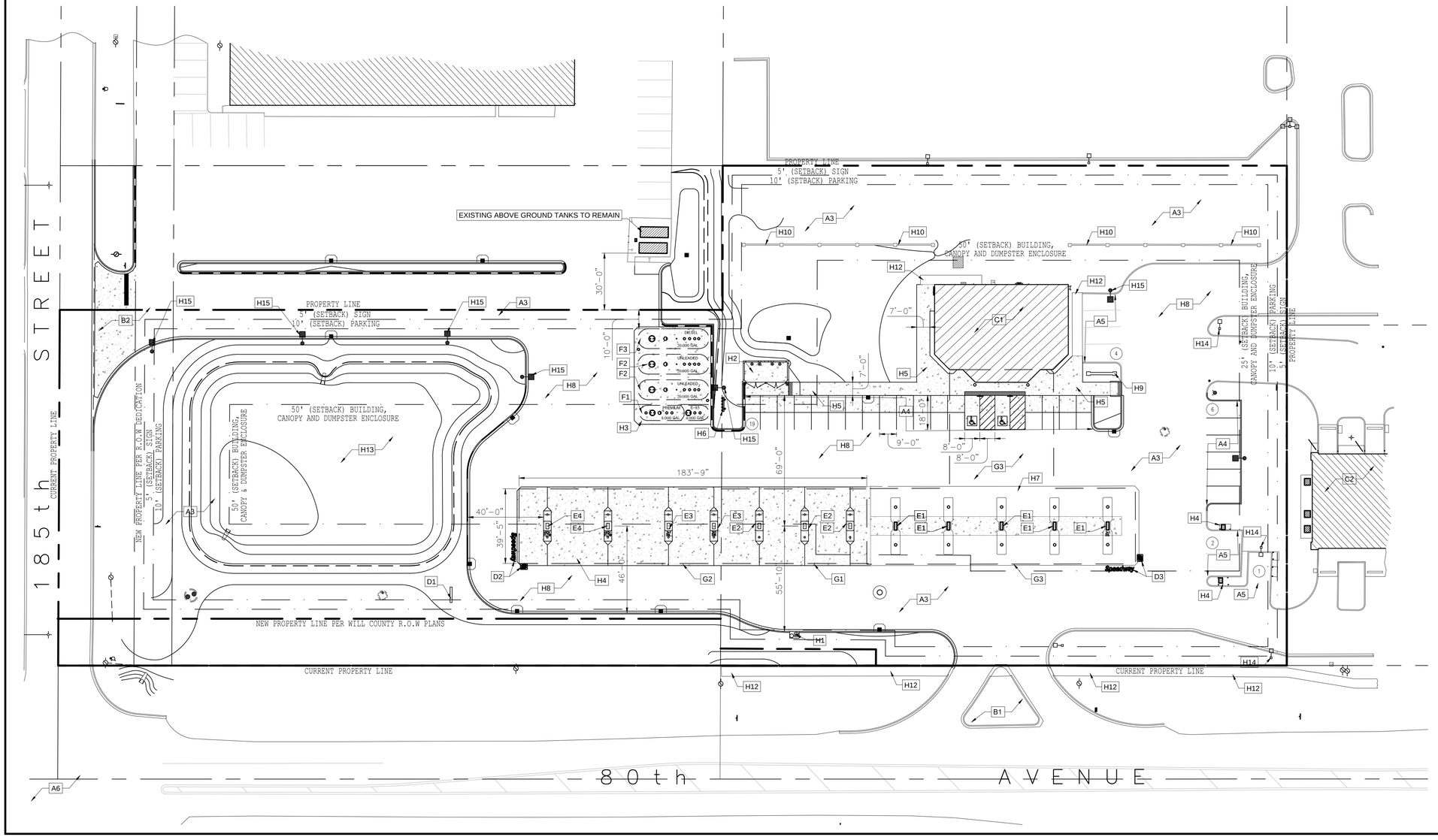
NO.	REVISIONS	DESIGNER	PROJ. MGR.	PLANNER
1	ISSUED PER VILLAGE COMMENTS	K.STRNAD 12/23/14	J.COUCH 12/23/14	K.Kischefski 12/23/14
2	RESUBMITTED TO VILLAGE PER COMMENTS	K.STRNAD 01/19/15	J.COUCH 01/19/15	K.Kischefski 01/19/15

COVER SHEET
DIESEL EXPANSION
18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR BLDG NO. #0001413
VERSION OR AFE NO. #85926
SCALE

DESIGN TEAM		DATE
DGNR.	K.STRNAD	01/19/15
PROJ. MGR.	J. COUCH	01/19/15
RVR.	C. KALISCHEFSKI	01/19/15

DRWG. NO.
#1413- CV



"ALL ITEMS NEW UNLESS OTHERWISE NOTED"

A. GENERAL NOTES:

1. GENERAL SCOPE OF WORK INCLUDES: AUTO CANOPY EXPANSION, FUEL TANKS, PIPING, DISPENSERS, PARKING, TRASH ENCLOSURE & HIGH FLOW DIESEL DISPENSERS.
2. TRUCK TURNS HAVE BEEN PERFORMED ON THIS SITE TO CONFIRM LOCATION OF USTs AND CFLs PLEASE SEE SHEET CR (CIRCULATION PLAN) FOR DETAILS.
3. EXISTING C-STORE AND CARWASH PROPERTY SIZE: 101,430.2725 SQ. FT. ± / 2.328 AC.±
   ADDITIONAL PROPERTY SIZE: 65,824.2327 SQ. FT. ± / 1.51 AC.±
   TOTAL PROPERTY SIZE: 144,754.5052 SQ. FT. ± / 3.323 AC.±
   RESIDUAL PROPERTY SIZE: 130,975.3393 SQ. FT. ± / 3.01 AC.±
4. MODIFIED PARKING SPACES: (2) ADA PARKING SPACES & (27) PARKING SPACES
5. (7) EXISTING PARKING SPACES TO REMAIN, WHICH INCLUDE 3 VACUUM STATIONS
6. THE ADJACENT INTERSECTION IS UNSIGNALIZED

B. SITE WORK

1. EXISTING ASPHALT DRIVE APPROACH WITH MINOR MODIFICATIONS
2. DRIVE APPROACH

C. BUILDING

1. EXISTING C-STORE BUILDING TO REMAIN (NO WORK)
2. EXISTING CAR WASH BUILDING TO REMAIN (NO WORK)

D. EXTERIOR APPEARANCE & SIGNAGE

1. GROUND MOUNT SIGN (PER CODE 120 SQ. FT. @ 10' HIGH)
2. CANOPY SIGNAGE
3. EXISTING CANOPY SIGNAGE TO REMAIN

E. DISPENSERS

1. (5) EXISTING AUTO DISPENSERS UNDER CANOPY TO REMAIN
2. (3) 3+0 DISPENSERS, SUMPS, AND ISLANDS
3. (2) 3+1 DISPENSERS, SUMPS AND ISLANDS
4. (2) HIGH FLOW DIESEL DISPENSERS, SUMPS, & ISLAND

F. UNDERGROUND STORAGE TANKS

1. (1) 12,000 GALLON TANK FOR PREMIUM & E-85
2. (2) 20,000 GALLON TANK FOR UNLEADED
3. (1) 20,000 GALLON TANK FOR DIESEL

G. CANOPY

1. EXTEND EXISTING AUTO CANOPY 182'-3" ± TO ACCOMMODATE ADDITIONAL DISPENSERS
2. INSTALL CANOPY SPRINKLER SYSTEM.
3. EXISTING CANOPY TO REMAIN

H. YARD

1. AIR ISLAND
2. TRASH ENCLOSURE
3. CONCRETE TANK SLAB
4. EXISTING VACUUM STATIONS TO REMAIN
5. CONCRETE SIDEWALK
6. TANK VENTS
7. EXISTING CONCRETE UNDER CANOPY TO REMAIN
8. ASPHALT PAVEMENT
9. EXISTING ONSITE ELEMENT TO REMAIN
10. EXISTING BRICK WALL TO REMAIN
11. CURB/ROADWAY MODIFICATION FOR CIRCULATION PATH
12. EXISTING SIDEWALK TO REMAIN
13. DETENTION AREA

CORPORATE DESIGN & DEVELOPMENT GROUP, LLC
2870 PARK DR.
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JOB# 151456

Speedway®

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

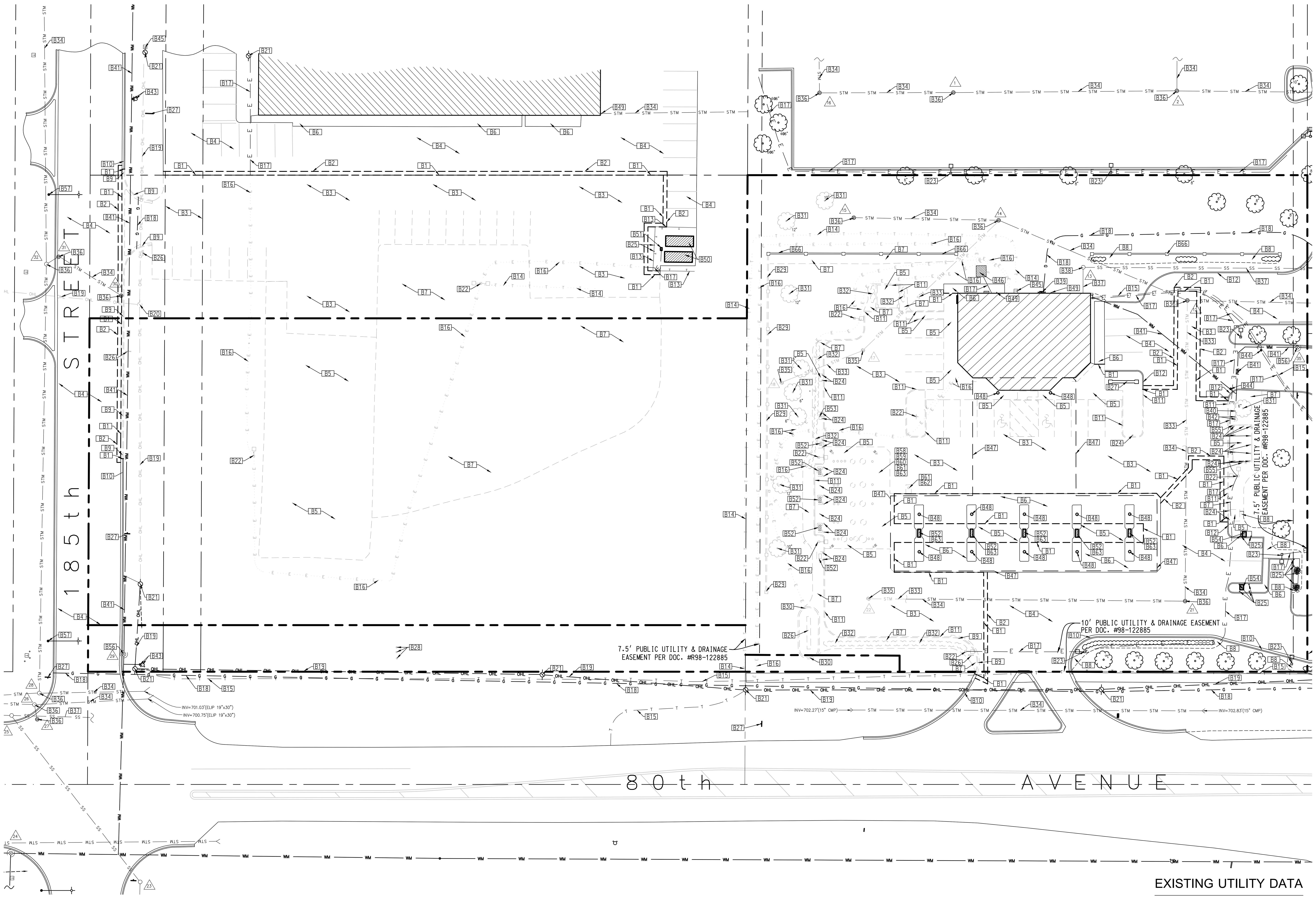
NO.	REVISIONS	DESIGNER	PROJ. MGR.	RVWR.	DATE
	ISSUED PER VILLAGE COMMENTS	K.STRNAD	J. COUCH	C. KALISCHEFSKI	07-24-15
	RESUBMITTED TO VILLAGE PER COMMENTS	K.STRNAD	J. COUCH	C. KALISCHEFSKI	07-31-15

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

STORE OR BLDG NO. #0001413
VERSION OR A/E NO. #85926
SCALE 1" = 30'-0"

DESIGN TEAM		DATE
DGNR.	K.STRNAD	01/19/15
PROJ. MGR.	J. COUCH	01/19/15
RVR.	C. KALISCHEFSKI	01/19/15

DRWG. NO. #1413- CZ.1



LEGEND

—— STM —— STM ——	EXISTING STORM SEWER
—— SS —— SS ——	EXISTING SANITARY SEWER
—— W —— W ——	EXISTING WATER MAIN
—— G —— G ——	EXISTING GAS MAIN
—— OHL —— OHL ——	EXISTING OVERHEAD ELECTRIC SERVICE
—— T —— T ——	EXISTING TELEPHONE SERVICE
—— E —— E ——	EXISTING ELECTRIC SERVICE
○	EXISTING STORM / SANITARY MANHOLE
	EXISTING OPEN FRAME MANHOLE
	EXISTING STORM CATCH BASIN
	EXISTING STORM CURB INLET
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE WITH VAULT
	EXISTING B-BOX

A. GENERAL NOTES

1. CLEAR ENTIRE SITE UNLESS OTHERWISE SPECIFIED ON THE PLANS OR BY THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY UNFORESEEN CONDITIONS.
3. THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY THE CONTRACTOR.
4. IF DAMAGED AS A RESULT OF THIS CONTRACT, ANY ITEMS TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL NOTIFY LOCAL UTILITIES 48 HRS. PRIOR TO DEMOLITION.
6. CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ALL UTILITIES AND COMPLY WITH REGULATIONS AND STANDARDS FOR EACH UTILITY.
7. WHEN REMOVING EXISTING UTILITY, CAP UTILITY AT THE MAIN.
8. CONTRACTOR SHALL PROVIDE BARRIERS, PERIMETER FENCING, PARTITIONS, PLANKING, BRACING, SHORING, LIGHTS, AND SIGNS AS NECESSARY TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES.
9. CONTRACTOR SHALL EXERCISE CARE TO PREVENT DUST VIBRATION, SETTLEMENT, OR OTHER IMPACT TO ADJACENT PROPERTY.
10. THE REMOVAL OF ASBESTOS, LEAD, ETC. CONTAINING MATERIALS SHALL BE IN ACCORDANCE WITH REGULATORY REQUIREMENTS, RECOMMENDATIONS IN THE ENVIRONMENTAL SURVEY, AND OWNER CONTRACT DOCUMENTS.
11. CONTRACTOR SHALL ARRANGE FOR ALL UTILITY DISCONNECTS AND CONNECTIONS.

B. KEY NOTES

1. SAW CUT, REMOVE, AND PROPERLY DISPOSE OF CONCRETE AND ASPHALT NECESSARY FOR CONSTRUCTION ACTIVITIES. ALL MATERIALS REMOVED DURING CONSTRUCTION SHALL BE DISPOSED OF OFF SITE AS DIRECTED BY OWNER'S REPRESENTATIVE.
2. NEW 2' WIDE BUTT JOINT.
3. EXISTING ASPHALT PAVEMENT TO BE REMOVED.
4. EXISTING ASPHALT PAVEMENT TO REMAIN.
5. EXISTING CONCRETE TO BE REMOVED.
6. EXISTING CONCRETE TO REMAIN.
7. EXISTING GRAVEL TO BE REMOVED.
8. EXISTING GRAVEL TO REMAIN.
9. EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED.
10. EXISTING CONCRETE CURB AND GUTTER TO REMAIN.
11. EXISTING CONCRETE CURB TO BE REMOVED.
12. EXISTING CONCRETE CURB TO REMAIN.
13. EXISTING GUARD RAIL TO REMAIN.
14. EXISTING UNDERGROUND TELEPHONE LINES TO BE REMOVED.
15. EXISTING UNDERGROUND TELEPHONE LINES TO REMAIN.
16. EXISTING UNDERGROUND ELECTRIC LINES TO BE REMOVED.
17. EXISTING UNDERGROUND ELECTRIC LINES TO REMAIN.
18. EXISTING GAS LINES TO REMAIN.
19. EXISTING OVERHEAD LINES TO REMAIN.
20. EXISTING UTILITY POLE TO BE REMOVED.
21. EXISTING UTILITY POLE TO REMAIN.
22. EXISTING AREA LIGHT TO BE REMOVED.
23. EXISTING AREA LIGHT TO REMAIN.
24. EXISTING BOLLARD TO BE REMOVED.
25. EXISTING BOLLARD TO REMAIN.
26. EXISTING SIGN TO BE REMOVED.
27. EXISTING SIGN TO REMAIN.
28. EXISTING WOODEN POST TO BE REMOVED.
29. EXISTING BRICK WALL TO BE REMOVED.
30. EXISTING RETAINING WALL TO BE REMOVED.
31. EXISTING TREE TO BE REMOVED.
32. EXISTING SHRUBS TO BE REMOVED.
33. EXISTING STORM SEWER TO BE REMOVED.
34. EXISTING STORM SEWER TO REMAIN.
35. EXISTING STORM STRUCTURE TO BE REMOVED.
36. EXISTING STORM STRUCTURE TO REMAIN.
37. EXISTING SANITARY SEWER TO REMAIN.
38. EXISTING SANITARY STRUCTURE TO REMAIN.
39. EXISTING GAS METER TO REMAIN.
40. EXISTING WATER MAIN TO BE REMOVED.
41. EXISTING WATER MAIN TO REMAIN.
42. EXISTING FIRE HYDRANT AND VALVE TO BE REMOVED.
43. EXISTING FIRE HYDRANT AND VALVE TO REMAIN.
44. EXISTING B-BOX TO REMAIN.
45. EXISTING TELEPHONE PEDESTAL TO REMAIN.
46. EXISTING TRANSFORMER TO REMAIN.
47. EXISTING CAR ISLAND CANOPY TO REMAIN.
48. EXISTING CANOPY COLUMN TO REMAIN.
49. EXISTING DOWNSPOUT TO REMAIN.
50. EXISTING ABOVE GROUND FUEL TANK TO REMAIN.
51. EXISTING CONTROL BOX TO REMAIN.
52. REMOVE (10) EXISTING DISPENSERS AND CONTACT MAINTENANCE SUPERVISOR FOR DISPOSITION. DRAIN ALL GASOLINE, REMOVE HOSES AND RISERS FROM DISPENSERS AND PLUG OPENINGS TO PREVENT LEAKAGE OF GASOLINE.
53. EXISTING VACUUM TO BE REMOVED.
54. EXISTING VACUUM TO REMAIN.
55. EXISTING FENCE TO BE REMOVED.
56. EXISTING WATER VALVE VAULT TO REMAIN.
57. EXISTING STREETLIGHT TO REMAIN.
58. REMOVE AND DISPOSE OF (1) 4,000 GALLON EXISTING FIBERGLASS TANKS. OLD TANK HOLE SHALL BE FILLED AND COMPACTED PER SPECIFICATIONS.
59. REMOVE AND DISPOSE OF (3) 8,000 GALLON EXISTING FIBERGLASS TANKS. OLD TANK HOLE SHALL BE FILLED AND COMPACTED PER SPECIFICATIONS.
60. REMOVE AND DISPOSE OF (1) 12,000 GALLON EXISTING FIBERGLASS TANKS. OLD TANK HOLE SHALL BE FILLED AND COMPACTED PER SPECIFICATIONS.
61. REFER TO "SCOPE OF WORK REMOVAL OF UNDERGROUND STORAGE TANK, UNDERGROUND PIPING, HOISTS, AND/OR DISPENSER DISPOSAL" (UST REMOVAL SOW).
62. EXISTING TANK FILL TO BE REMOVED.
63. REMOVE ALL PRODUCT PIPING, VENT LINES AND RISERS.
64. OWNER'S ENVIRONMENTAL CONTRACTOR SHALL ABANDON EXISTING WATER WELL PER STATE AND LOCAL REGULATIONS. REMOVE CASING 1'- 0" BELOW FINISH GRADE AND CAP WATER LINE AT CASING. CONTRACTOR WILL COORDINATE WORK WITH ENVIRONMENTAL CONTRACTOR.
65. CONTRACTOR SHALL MAINTAIN ALL EXISTING MONITORING WELLS IF POSSIBLE. ANY MONITORING WELLS THAT INTERFERE WITH NEW CONSTRUCTION. SHALL BE ABANDONED PER STATE REQUIREMENTS. CONTRACTOR WILL COORDINATE WORK WITH OWNER'S ENVIRONMENTAL CONTRACTOR.
66. EXISTING BRICK WALL TO REMAIN.

EXISTING UTILITY DATA

No.	Data
1	RIM=703.26' (STORM) 48" CONCRETE STRUCTURE INV=700.71' (12" RCP N/S)
2	RIM=704.06' (STORM) 48" CONCRETE STRUCTURE INV=700.08' (18" RCP N) INV=700.08' (12" RCP W/S)
3	RIM=706.57' (STORM) 48" CONCRETE STRUCTURE INV=700.08' (18" RCP NE/S) INV=700.17' (12" RCP W)
4	RIM=704.41' (STORM) 48" CONCRETE STRUCTURE INV=699.78' (24" RCP N) INV=699.78' (15" RCP SE) INV=699.78' (18" RCP SW)
5	RIM=704.95' (STORM) 48" CONCRETE STRUCTURE INV=700.12' (18" RCP NW) INV=700.21' (12" RCP E) INV=700.21' (15" RCP S)
6	RIM=706.01' (STORM) 48" CONCRETE STRUCTURE INV=700.28' (12" RCP W) INV=701.91' (12" RCP E)
7	RIM=704.95' (STORM) 48" CONCRETE STRUCTURE INV=702.06' (12" RCP W/NE)
8	RIM=706.50' (STORM) 48" CONCRETE STRUCTURE INV=703.25' (6" PVC N/S) INV=702.56' (12" RCP SW)
9	RIM=706.35' (SANITARY) 48" CONCRETE STRUCTURE INV=698.57' (8" PVC NW) INV=700.25' (8" D.I. E)
10	RIM=706.75' (SANITARY) 48" CONCRETE STRUCTURE INV=697.23' (8" PVC SE/W)
11	RIM=706.65' (SANITARY) 48" CONCRETE STRUCTURE INV=696.72' (8" PVC N/S/E)
12	RIM=703.99' (STORM) 48" CONCRETE STRUCTURE INV=700.44' (15" RCP NW) INV=700.44' (12" RCP S) INV=700.49' (12" RCP E)
13	RIM=705.29' (SANITARY) 48" CONCRETE STRUCTURE INV=697.24' (8" PVC N) INV=699.24' (6" PVC E)
14	RIM=704.10' (STORM) 48" CONCRETE STRUCTURE INV=700.73' (12" RCP N) INV=700.80' (12" RCP SE/S)
15	RIM=704.17' (STORM) 24" CONCRETE STRUCTURE INV=702.49' (12" RCP N)
16	RIM=703.64' (STORM) 48" CONCRETE STRUCTURE INV=700.88' (12" RCP N/W)
17	RIM=703.94' (STORM) 48" CONCRETE STRUCTURE INV=701.31 (12" RCP NW/S)
18	RIM=703.71' (STORM) 24" CONCRETE STRUCTURE INV=701.57' (12" RCP NW)
19	RIM=705.16' (STORM) 24" CONCRETE STRUCTURE INV=702.91' (12" RCP NW)
20	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)
21	RIM=704.13' (STORM) 48" CONCRETE STRUCTURE INV=701.01' (12" RCP W/S)
22	RIM=704.04' (STORM) 24" CONCRETE STRUCTURE INV=701.59' (12" RCP N)
23	RIM=702.85' (SANITARY) 48" CONCRETE STRUCTURE INV=681.55' (24" RCP SW/E)
24	RIM=703.08' (WATER) 72" CONCRETE STRUCTURE 5.40' TO TOP OF 24" MAIN N/S
25	RIM=703.31' (SANITARY) 48" CONCRETE STRUCTURE INV=682.45' (12" PVC N) INV=681.63' (24" RCP S/NE)
26	RIM=704.02' (STORM) 48" CONCRETE STRUCTURE INV=700.24' (19"X30" RCP N) INV=700.24' (12" RCP E) INV=700.24' (24" RCP S)
27	RIM=703.23' (STORM) 48" CONCRETE STRUCTURE UNABLE TO OPEN
28	RIM=704.15' (STORM) 60" CONCRETE STRUCTURE INV=700.62' (19"X30" RCP N/S) INV=700.62' (21" RCP W)
29	RIM=704.32' (WATER) 48" CONCRETE STRUCTURE 5.15' TO TOP OF 12" MAIN E/W
30	RIM=707.62' (STORM) 48" CONCRETE STRUCTURE INV=704.67' (12" RCP SW)
31	RIM=707.67' (STORM) 48" CONCRETE STRUCTURE INV=704.50' (12" RCP NE/SE)
32	RIM=708.25' (STORM) 60" CONCRETE STRUCTURE INV=703.90' (12" RCP NW) INV=701.00' (21" RCP E/W)
33	RIM=709.01' (STORM) 60" CONCRETE STRUCTURE INV=701.56' (21" RCP E)
34	RIM=709.14' (WATER) 60" CONCRETE STRUCTURE 5.10' TO TOP OF 12" MAIN E/W
35	RIM=705.35' (WATER) 48" CONCRETE STRUCTURE 5.65' TO TOP OF 10" MAIN N/S
36	RIM=704.67' (WATER) FROZEN STRUCTURE NO PIPES VISABLE

WARNING

CALL BEFORE YOU DIG

CALL 1(800)892-0123
48 HOURS BEFORE YOU DIG

CONTRACTOR MUST LOCATE PRIVATE UTILITIES IN AREA OF CONSTRUCTION PRIOR TO PROCEEDING WITH WORK

NORTH

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IL License No.: 184-003492 Exp: 04/30/17

W-T

Speedway®

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

REVISIONS

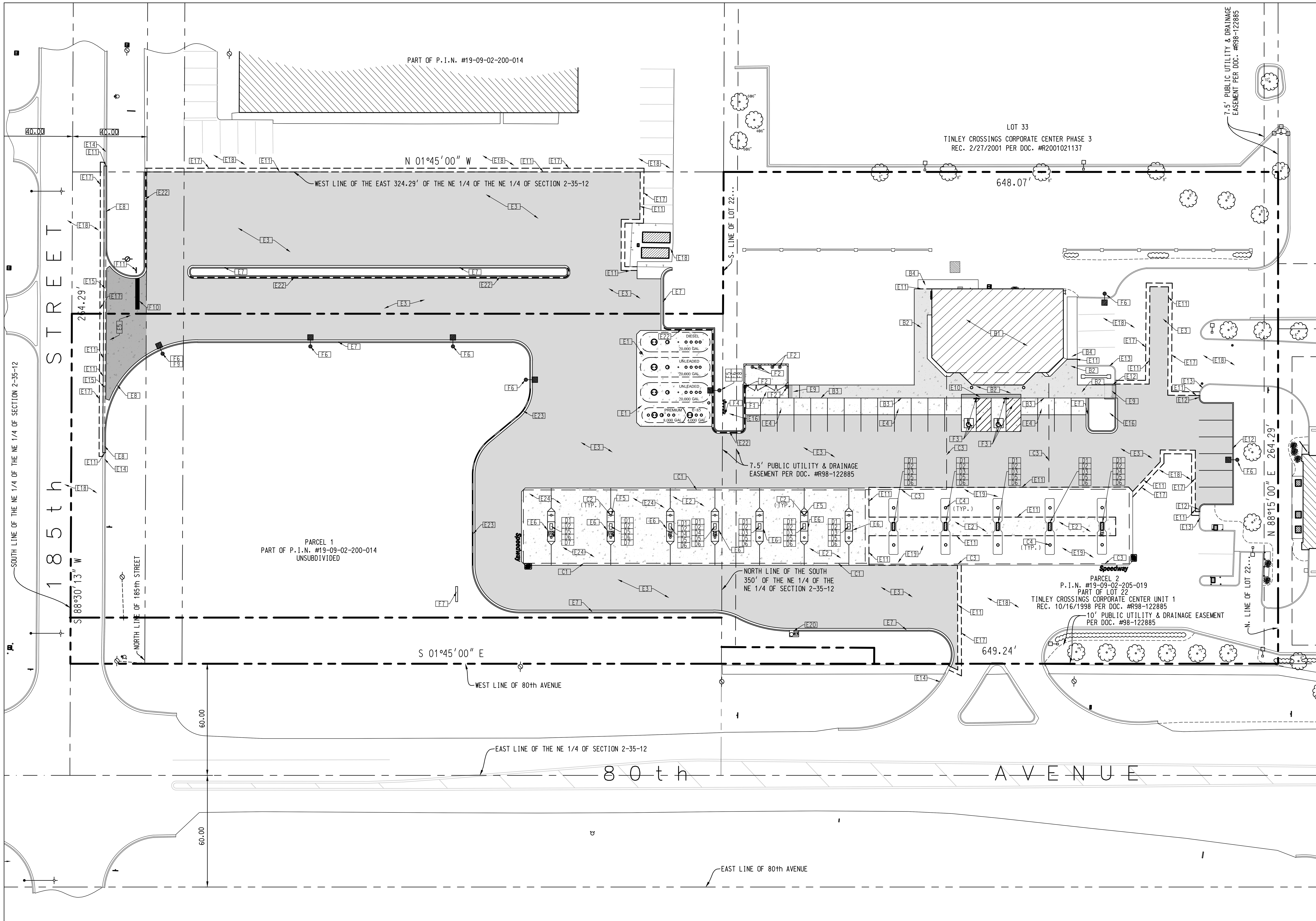
DEMOLITION PLAN
DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR BLDG NO.	0001413
VERSION OR AFE NO.	85926
SCALE	0 — 30' 1" = 30'-0"

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 CD



PAVEMENT SECTIONS

- 5" OR 6" NORMAL STRENGTH CONCRETE PAVEMENT
- 4" NORMAL STRENGTH CONCRETE PAVEMENT
- NORMAL STRENGTH ASPHALT PAVEMENT
- 8" HIGH STRENGTH CONCRETE PAVEMENT

A. GENERAL NOTES

1. ALL MATERIAL NOTED ON DRAWINGS WILL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
2. RESTORE TO ORIGINAL OR BETTER CONDITION ALL AREAS DISTURBED BY CONSTRUCTION. UPON COMPLETION, POWER WASH ALL PAVING TO OWNER'S SATISFACTION.
3. SHOW ALL MODIFIED PIPING, CONDUIT RUNS, UTILITIES AND ANY MODIFICATIONS MADE TO THE ORIGINAL DRAWINGS ON "AS-BUILT" PRINT AND TURN OVER TO OWNER'S REPRESENTATIVE UPON COMPLETION.
4. THIS LAYOUT IS PARALLEL TO THE EAST PROPERTY LINE S 01°45'00"E.
5. TURNOVER MANUAL:
   ON THE DAY OF THE "TURNOVER" THE CONTRACTOR WILL PROVIDE (THREE) COPIES OF THE COMPLETION MANUALS.
6. OWNER SHALL PROVIDE AND THE CONTRACTOR SHALL IMMEDIATELY INSTALL AND MAINTAIN THROUGH OUT CONSTRUCTION (2) TEMPORARY BANNER SIGNS ANNOUNCING SPEEDWAY COMING SOON. THE SIGN SHALL DIRECT CUSTOMERS TO NEAREST SPEEDWAY IF APPLICABLE. CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO COORDINATE WITH SPEEDWAY'S VENDOR TO ERECT THE ID SIGNS AS EARLY IN THE CONSTRUCTION PROCESS AS POSSIBLE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF THE ENTIRE SITE. THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR.
8. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE ALTA/ACSM LAND TITLE SURVEY DATED 1-6-2015, PREPARED BY W-T LAND SURVEYING, INC. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

B. BUILDING DETAILS

1. EXISTING C-STORE BUILDING TO REMAIN.
2. CONSTRUCT BUILDING SIDEWALK AS SHOWN ON PLOT PLAN AND PER DRAWING STD-CP-1.
3. PAINT THE ENTIRE VERTICAL FACE OF THE SIDEWALK HIGHWAY YELLOW (1600014), INCLUDING 4" ONTO THE TOP OF SIDEWALK EXCEPT WHERE GRADES ARE FLUSH AT HANDICAP RAMPS AND ADJACENT TO NON-PAVED SURFACES.
4. EXISTING CONCRETE SIDEWALK TO REMAIN.

C. CANOPY DETAILS

1. COORDINATE WITH VENDOR TO INSTALL NEW AUTO CANOPY PER MCGEE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTERS AND ANCHOR BOLTS.
2. USE AUTO CANOPY COLUMN FOUNDATIONS SIZE (14) 4'X 4'X 5' FOR BIDDING PURPOSES IF AUTO CANOPY DRAWINGS ARE NOT AVAILABLE IN TIME FOR BIDDING. AUTO CANOPY DRAWINGS WILL BE AVAILABLE FOR CONSTRUCTION.
3. EXISTING CANOPY TO REMAIN. COORDINATE NEW CANOPY CONSTRUCTION WITH EXISTING CANOPY.
4. EXISTING CANOPY COLUMN TO REMAIN.

D. DISPENSER DETAILS

1. THE CONTRACTOR IS RESPONSIBLE FOR PURGING OF THE FUELING SYSTEM NECESSARY AT START-UP AND DISPENSER CALIBRATION. THE OWNER SHALL PAY FOR (1) THIRD-PARTY LINE TEST FOR EACH PRODUCT LINE AFTER PURGING IS COMPLETE. COST OF ANY ADDITIONAL DISPENSER CALIBRATIONS AND/OR LINE TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PURGE SYSTEM PER DISPENSER MANUFACTURER'S INSTRUCTIONS AND OWNER'S SPECIFICATIONS. ALL TESTING TO BE COORDINATED WITH SPEEDWAY COMPLIANCE DEPARTMENT. AFTER PURGING IS COMPLETE, CONTRACTOR SHALL REMOVE AND DISCARD SCREENS AND FACTORY FILTERS AND INSTALL NEW FILTERS (MODEL NOTED BELOW), FURNISHED BY OWNER. INSTALLATION DATES SHALL BE CLEARLY MARKED ON FILTER BY CONTRACTOR. FILTER MODELS ARE (A) AUTO: PETROCLEAR 40510A (B) AUTO-DSL AND K-1: PETROCLEAR 4051W (C) E85: CIMTEK 70991 (D) HIGH FLOW DSL: PETROCLEAR 51110W. SPEEDWAY'S MAINTENANCE DEPARTMENT SHALL INSTALL DISPENSER FACE LABELS.
2. THE CONTRACTOR SHALL COMPLETE THE GILBARCO PROVIDED FORM "A" PRIOR TO START-UP. THE 0.1 TEST MUST BE COMPLETED VIA THE ATG PRIOR TO OPENING FUEL SALES. FORMS "B" AND "C" SHALL BE COMPLETED BY GILBARCO'S AUTHORIZED SERVICE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH SPEEDWAY'S PREFERRED AUTHORIZED SERVICE CONTRACTOR (ASC) FOR TRIPS AS FOLLOWS:

TRIP	GILBARCO ASC RESPONSIBILITIES	FINANCIAL RESPONSIBILITY
1	PREP DISPENSERS FOR CONTRACTOR TO PURGE	GILBARCO
2	REVIEW CONTRACTOR'S PURGE WORK	GILBARCO
	REVIEW CONTRACTOR'S COMPLETED GILBARCO FORM "A"	
	COMPLETE FORM "B" AND FORM "C" (PRE POS INTEGRATION)	
3	COMPLETE FORM "B" AND FORM "C" (POST POS INTEGRATION)	GILBARCO
4	OPENING DAY SUPPORT (SPEEDWAY REQUIREMENT)	CONTRACTOR

3. INSTALL (7) NEW GILBARCO 3 PRODUCT (3+0) HIGH HOSE DISPENSER WITH CARD READER. INSTALL (6) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR GASOLINE DISPENSERS. PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S."A") OF DISPENSERS SHALL BE AS SHOWN.
4. INSTALL (3) NEW GILBARCO 4 PRODUCT (3+1) HIGH HOSE DISPENSER WITH CARD READER. INSTALL (8) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR GASOLINE DISPENSERS. (6) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR DIESEL DISPENSERS AND (2) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR E-85 DISPENSER(S). PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S."A") OF DISPENSERS SHALL BE AS SHOWN.
5. INSTALL (2) 3/4" AND (1) 1" CONDUIT TO EACH NEW DISPENSER FROM WIRE WAY IN BUILDING TO EACH DISPENSER. (1) 1" CONDUIT TO BE USED FOR POWER/DATA. (1) 3/4" CONDUIT TO BE USED FOR DISPENSER SUMP SENSOR. OTHER 3/4" CONDUIT TO BE USED FOR INTERCOM AND APPLAUSE MEDIA SYSTEM. PULL NEW WIRE AND WIRE DISPENSER PER MANUFACTURER'S SPECIFICATIONS. ALL DISPENSERS EXCEPT SATELLITE DISPENSERS.
6. INSTALL 3-M INTERCOM SYSTEM PER DIRECTION OF OWNER'S REPRESENTATIVE AND STANDARD DRAWING #STD-ET-S1.
7. INSTALL (2) NEW GILBARCO SINGLE PRODUCT "MASTER/MASTER" DIESEL DISPENSER WITH CARD READER. INSTALL (2) HOSES, NOZZLES, SWIVELS AND BREAKAWAYS FOR DIESEL PRODUCT. FRONT SIDE "A" (F.S."A") OF DISPENSER SHALL BE SHOWN.

E. PAVING DETAILS

1. CONSTRUCT NEW HIGH STRENGTH CONCRETE TANK SLAB PER DRAWINGS STD-PQ-4.1 AND STD-CP-1.
2. CONSTRUCT NEW CONCRETE CAR ISLAND SLAB PER DRAWINGS STD-SB-2 AND STD-CP-1.
3. INSTALL NORMAL STRENGTH ASPHALT PAVEMENT WITH AN AGGREGATE BASE PER PAVEMENT SECTION ON STD-CP-1 AND USE THE RECOMMENDATIONS OF GEOTECHNICAL CONSULTANT FOR ALL OTHER SUBSURFACE CONDITIONS ON THIS SITE. NOTIFY THE OWNER'S REPRESENTATIVE IF THERE ARE ANY CONFLICTS.
4. CONSTRUCT A 9' CONCRETE SLAB IN PARKING AREAS AS SHOWN ON PLOT PLAN.
5. CONSTRUCT (1) HIGH STRENGTH CONCRETE APPROACH PER STATE AND/OR LOCAL SPECIFICATIONS. IF APPLICABLE, REMOVE CURB THROUGH APPROACH WIDTH AND REPLACE WITH 1-1/2" HIGH DEPRESSED CURB PER APPLICABLE SPECIFICATIONS.
6. INSTALL (7) NEW CONCRETE DISPENSER ISLANDS WITH 4' X 5' X 13" ISLAND FORM FOR AUTO DISPENSERS.
7. CONSTRUCT B6.12 CURB AND GUTTER INSIDE PROPERTY LINES PER DRAWING STD-CP-1. CONTRACTOR TO VERIFY WITH OWNERS REPRESENTATIVE WHICH TYPE OF CURB TO USE ON SITE.
8. CONSTRUCT B6.12 CONCRETE CURB AND GUTTER IN RIGHT-OF-WAY PER STATE AND/OR LOCAL SPECIFICATIONS. MACHINE FORMED CURB AND GUTTER MAY BE USED IF ALLOWED BY STATE AND/OR LOCAL SPECIFICATIONS.
9. CONSTRUCT RAMP WITH DETECTABLE WARNING SURFACE IN CONCRETE WALK PER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
10. INSTALL 2'-0" WIDE DETECTABLE WARNING SURFACE ALIGNED ON ACCESSIBLE AISLE PER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
11. NEW FULL DEPTH SAWCUT TO PROVIDE CLEAN CONSTRUCTION BREAK.
12. CONSTRUCT NEW 6" CONCRETE CURB.
13. EXISTING CONCRETE CURB TO REMAIN.
14. EXISTING CONCRETE CURB AND GUTTER TO REMAIN.
15. CONSTRUCT CONCRETE DEPRESSED CURB IN RIGHT-OF-WAY PER STATE AND/OR LOCAL SPECIFICATIONS. MACHINE FORMED DEPRESSED CURB AND GUTTER MAY BE USED IF ALLOWED BY STATE AND/OR LOCAL SPECIFICATIONS.
16. INSTALL NEW GRAVEL LANDSCAPE AREA TO MATCH EXISTING.
17. NEW 2' WIDE BUTT JOINT.
18. EXISTING ASPHALT PAVEMENT TO REMAIN.
19. EXISTING CONCRETE PAVEMENT TO REMAIN.
20. INSTALL CONCRETE SLAB FOR AIR MACHINE PER DRAWING STD-QS-1. INSTALL (1) 3/4" CONDUIT AND WIRE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY INSTALLATION DETAILS WITH VENDORS.
21. BID AS ALTERNATE C: PROVIDE A PRICE PER SQUARE FOOT FOR COLD WEATHER PROTECTION OF ALL PAVEMENT.
22. CONSTRUCT B6.12 CURB AND GUTTER, SLOPED DOWN GRADIENT AWAY FROM CURB, INSIDE PROPERTY LINES.
23. CONSTRUCT HIGH BACK CURB AND GUTTER.
24. INSTALL 6" THICK CONCRETE ON THIS END OF THE CAR ISLAND SLAB INSTEAD OF 5" CONCRETE.

F. YARD AREA DETAILS

1. CONSTRUCT DUMPSTER ENCLOSURE AND COLLECTION PAD PER DRAWING STD-SS-DET AND STD-SS-2E. GATE SHALL BE BOARD ON BOARD.
2. SUPPLY AND INSTALL (6) 6" GUARD POSTS PER DETAIL ON DRAWING STD-QS-1 AND STD-SS SERIES DRAWING. GUARD POST SHALL BE PAINTED RED PER OWNER'S SPECIFICATIONS.
3. PAINT INDICATED HANDICAPPED SPACES AND INSTALL SIGNAGE PER APPLICABLE CODES. PAINT ALL OTHER PARKING STRIPES YELLOW.
4. INSTALL VENT STACK AND 3" PVC PIPE TO HOLD TANK STICK PER OWNER'S REPRESENTATIVE.
5. "PROVIDE AND INSTALL CODE APPROVED FIRE EXTINGUISHER(S)(1 MINIMUM) WITH PLASTIC BOX HOLDER IN APPROVED LOCATIONS AS REQUIRED BY LOCAL FIRE OFFICIALS.
   FIRE EXTINGUISHERS SHALL BE LOCATED SUCH THAT AN EXTINGUISHER IS NOT MORE THAN 75 FEET FROM PUMPS, DISPENSERS, OR STORAGE TANK FILL OPENINGS.
   FIRE EXTINGUISHER MINIMUM RATING SHALL BE 2-A:20-B:C."
6. CONSTRUCT (7) 18" DIAMETER LIGHT POLE BASES 2'-0" HIGH FOR 15' HIGH LIGHTS PER DETAILS ON DRAWING STD-QS-1. INSTALL (1) 3/4" CONDUIT TO EACH BASE FROM ELECTRICAL PANELS PER THE OWNER'S REPRESENTATIVE, AND WIRE FIXTURES. CONTRACTOR IS RESPONSIBLE FOR TOUCH-UP PAINTING ON POLES, ANCHOR BOLTS, ETC.
7. PROVIDE AND INSTALL (1) 3/4" CONDUIT (OR LARGER BASED ON NEC CODES) AND WIRING FROM ELECTRICAL PANEL TO PRICER SIGN FOR 120V POWER.
8. CONTRACTOR SHALL INSTALL CONDUIT (SIZED PER NEC CODES), AND RG59/18-2 SIAMESE CABLE FOR YARD SECURITY CAMERAS TO THESE LOCATIONS. SECURITY CAMERAS SHALL BE INSTALLED BY SSA MAINTENANCE DEPT.
9. CONTRACTOR SHALL INSTALL CONDUIT (SIZED PER NEC CODES) AND INSTALL PULL STRING FOR FUTURE YARD SECURITY CAMERAS TO THESE LOCATIONS.
10. FURNISH AND INSTALL NEW 24" WIDE WHITE PAINTED STOP BAR PER SECTION 780 OF THE IDOT STANDARD ROAD AND BRIDGE CONSTRUCTION.
11. FURNISH AND INSTALL NEW 30" BY 30" R1-1 "STOP" SIGN.

NORTH

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IL License No.: 184-003492 Exp: 04/30/17
Prepared By:
Speedway
Engineering and Construction Dept.
Enon, OH 45323

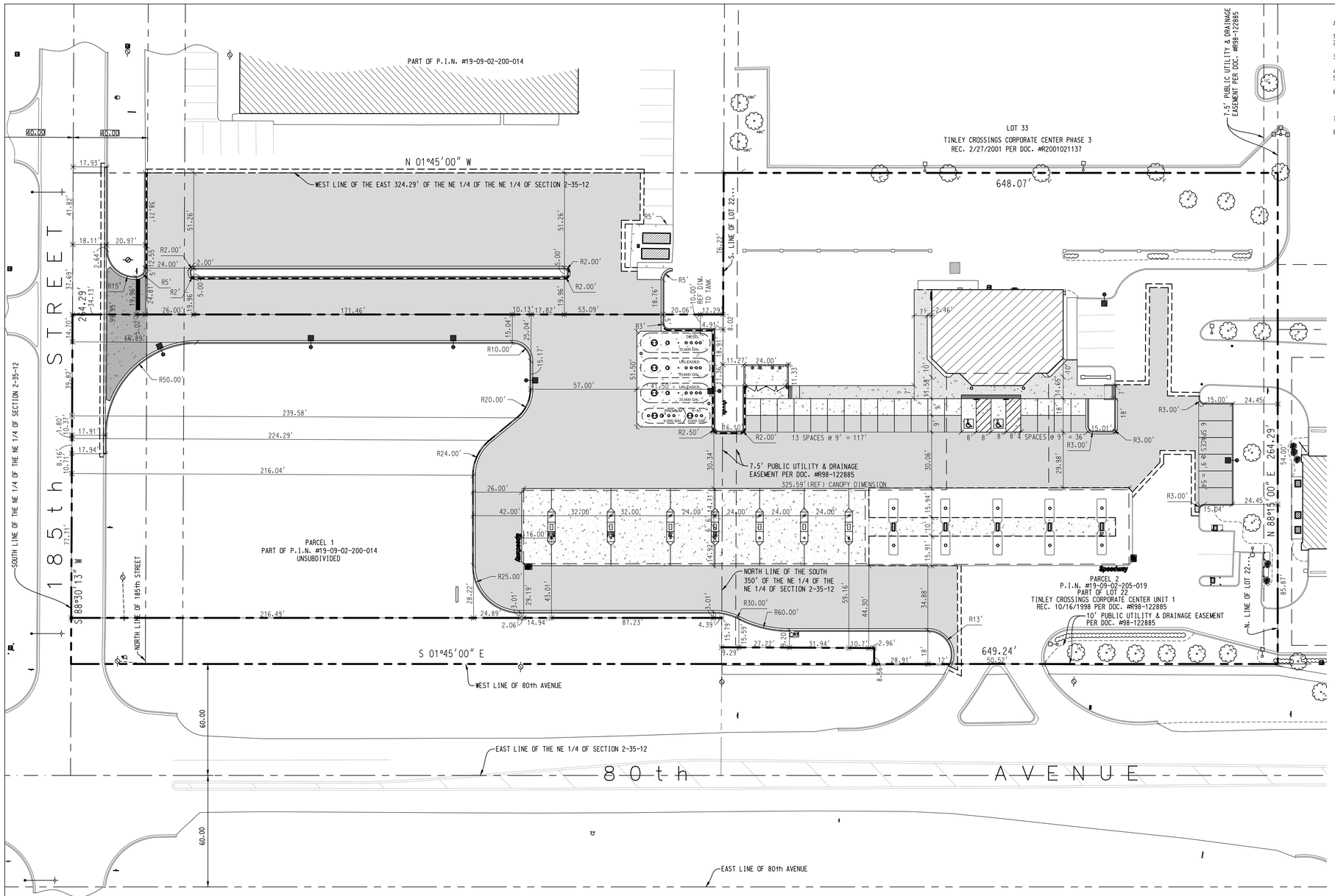
REVISIONS

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

STORE OR BLDG NO. 0001413
VERSION OR AFE NO. 85926
SCALE 1" = 30'-0"

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 CS1



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3. SHOW ALL MODIFIED PIPING, CONDUIT RUNS, UTILITIES AND ANY MODIFICATIONS MADE TO THE ORIGINAL DRAWINGS ON "AS-BUILT" PRINT AND TURN OVER TO OWNER'S REPRESENTATIVE UPON COMPLETION.
4. THIS LAYOUT IS PARALLEL TO THE EAST PROPERTY LINE S 01°45'00"E.
5. TURNOVER MANUAL:
   ON THE DAY OF THE "TURNOVER" THE CONTRACTOR WILL PROVIDE (THREE) COPIES OF THE COMPLETION MANUALS.
6. OWNER SHALL PROVIDE AND THE CONTRACTOR SHALL IMMEDIATELY INSTALL AND MAINTAIN THROUGH OUT CONSTRUCTION (2) TEMPORARY BANNER SIGNS ANNOUNCING SPEEDWAY COMING SOON. THE SIGN SHALL DIRECT CUSTOMERS TO NEAREST SPEEDWAY IF APPLICABLE. CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO COORDINATE WITH SPEEDWAY'S VENDOR TO ERECT THE ID SIGNS AS EARLY IN THE CONSTRUCTION PROCESS AS POSSIBLE.
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- 5" OR 6" NORMAL STRENGTH CONCRETE PAVEMENT
- 4" NORMAL STRENGTH CONCRETE PAVEMENT
- NORMAL STRENGTH ASPHALT PAVEMENT
- 8" HIGH STRENGTH CONCRETE PAVEMENT

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W-T

Speedway®

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

NO.	REVISIONS	DESIGNER	DATE	PANEL	APP'D	DATE
1	SITE PLAN CHANGE	G.Glascott	03-Apr-2015	J. Hobbs	J. Hobbs	03-Apr-2015
2	SITE PLAN CHANGE	G.Glascott	05-May-2015	J. Hobbs	J. Hobbs	05-May-2015
3	FOR WILL COUNTY DOT SUBMITTAL	G.Glascott	07-Sep-2015	J. Hobbs	J. Hobbs	07-Sep-2015
4	PER MUNGE COMMENTS	G.Glascott	07-Sep-2015	J. Hobbs	J. Hobbs	07-Sep-2015

DIMENSION PLAN
DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR BLDG NO.	0001413
VERSION OR AFE NO.	85926
SCALE	1" = 30'-0"

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 CS2

SITE EQUIPMENT LIST

ITEM #	EQUIPMENT/MATERIAL DESCRIPTION	# REQ'D	FURN BY	INST BY	COMMENTS/DWG. #
A1	PUSHBUTTON E-STOP	0		C	WHERE SHOWN
A2	DISPENSERS, GILBARCO 3 PRODUCT, HIGH HOSE W/CARDREADER	7	O	C	SOME DISP. ASSEMBLY REQ'D
A3	DISPENSERS, GILBARCO 3+1 PRODUCT (DSL), HIGH HOSE W/CARDREADER	2	O	C	SOME DISP. ASSEMBLY REQ'D
A4	DISPENSER, GILBARCO 3+1 PRODUCT (E85), HIGH HOSE W/CARDREADER	1	O	C	SOME DISP. ASSEMBLY REQ'D
A6	DISPENSERS, MASTER/MASTER COMBO, GILBARCO 1 PRODUCT (DSL), HIGH HOSE W/CARDREADER	2	O	C	SOME DISP. ASSEMBLY REQ'D
A10	HOSES, NOZZLES, SWIVELS, BREAKAWAYS	20	O	C	GASOLINE DISP.
A11	HOSES, NOZZLES, SWIVELS, BREAKAWAYS	4	O	C	DIESEL DISP.
A12	HOSES, NOZZLES, SWIVELS, BREAKAWAYS	2	O	C	E85 DISP.
A13	HOSES, NOZZLES, SWIVELS, BREAKAWAYS	4	O	C	HIGH FLOW DSL DISP.
A15	ISLAND FORMS, 4' X 5' X 12"	12	O	C	HOLD 6" ABOVE PVMT
A17	OPW FIBERGLASS SUMPS, DISPENSER	12	O	C	ALL UPP PIPED DISPENSERS, STP-PQ AND STP-TF SERIES
A22	TANKS 20,000 GALLON, DOUBLEWALL FIBERGLASS	3	O	C	STP-PQ SERIES / STP-TF SERIES
A23	TANKS, 12,000 GALLON, DUAL COMPARTMENT DOUBLEWALL FIBERGLASS	1	O	C	STP-PQ SERIES
A24	PUMPS, SUBMERSIBLE 4 H.P., VARIABLE SPEED	3	O	C	STP-PQ SERIES / STP-TF SERIES
A26	PUMPS, SUBMERSIBLE 3/4 H.P., FIXED SPEED	1	O	C	STP-PQ SERIES
A27	PUMPS, SUBMERSIBLE 2 H.P., FIXED SPEED	1	O	C	STP-PQ SERIES
A31	OBSERVATION WELL, 12" W/CAP	1	O	C	STP-PQ SERIES
A32	OBSERVATION WELL, 4" W/CAP	1	O	C	STP-PQ SERIES
A33	"LEAK DETECTION AND ATG, VEEDER-ROOT TLS-450 PLUS SYSTEM"	5	O	C	STP-EI-7
A34	LEAK DETECTION, INTERSTITIAL MONITOR	4	O	C	STP-EI-7
A35	42" FIBERGLASS SHALLOW BURY TANK SUMPS	4	O	C	STP-PQ SERIES
A36	42" FIBERGLASS STANDARD BURY TANK SUMPS	1	O	C	CFL TANKS
A37	DROP TUBES, 8' X 4" EVR OVERFILL CARB APPROVED FOR GAS, K-1 OR DIESEL	1	O	C	8' TANKS
A38	DROP TUBES, 10' X 4" EVR OVERFILL CARB APPROVED FOR GAS OR DIESEL	6	O	C	10' TANKS
A39	DROP TUBES, 8' X 4" CARB APPROVED E85 OVERFILL VALVE	1	O	C	E85 TANKS
A40	SPILL CONTAINMENT MANHOLE (DOUBLEWALL, REMOVABLE FLDS)	8	O	C	STP-PQ SERIES
A41	VENT CAPS(DSL, K-1)	3	O	C	SEE MANUFACTURER'S INFORMATION
A42	FV VENT CAPS (E01, FC1, E85, DEF)	2	O	C	SEE MANUFACTURER'S INFORMATION
A43	FILL ADAPTOR (18" MANHOLE COVER)	8	O	C	SEE CORRECT MOUNTING HEIGHT ON STP-PQ SERIES DRAWING. SWIVEL AND NON-SWIVEL STD. ARE NOT THE SAME.
A44	VAPOR RECOVERY ADAPTOR (12" MANHOLE COVER)	5	O	C	SEE CORRECT MOUNTING HEIGHT ON STP-PQ SERIES DRAWING. SWIVEL AND NON-SWIVEL STD. ARE NOT THE SAME.
B1	SIGN, I.D., GROUND MOUNT 60.25 SQ. FT.	1	O	V	STD-AG-____. ELECTRIC AND BASES BY CONTRACTOR.
B8	SIGN, "SPEEDWAY", CANOPY FASCIA SIGN	2	O	V	SEE SIGNAGE PLAN.
B9	SIGN, "S" LOGO, CANOPY FASCIA SIGN	2	O	V	SEE SIGNAGE PLAN.
B14	LANE IDENTIFIER, AUTO				SEE SIGNAGE PLAN.
	NUMBERED	24	O	C	ON EACH CANOPY COLUMN
	DIESEL	8	O	C	ON END CANOPY COLUMNS
	E85	2	O	C	ON SECOND CANOPY COLUMN CLOSEST TO TANKS
B24	INTERCOM SYSTEM, 3-WK MASTER CONTROL STATION	12	O	C	WIRE INTO AUTO (AND COMMERCIAL FUELING LANE) DISPENSERS
B26	AUTO AIR SERVICE MACHINE	1	V	V	STD-QS-3. CONCRETE SLAB AND CONDUIT BY CONTRACTOR
C1	AUTO CANOPY, 183.72' X 39.43' W/ (14) ROUND COLUMNS	14	V	V	BASE & ELECT. BY CONTRACTOR. ANCHOR BOLTS SUPPLIED BY VENDOR
C1	AUTO WINDSHIELD SERVICE CABINETS	12	O	C	ON BUILDING SIDE OF AUTO CANOPY, ON EVERY COLUMN. SEE SIGNAGE PLAN.

NORTH

WT-CIVIL JOB# CE14144

W-T CIVIL ENGINEERING, LLC.
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W-T

Speedway®

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

DESIGNER PROJ. MGR. REVIEWER DATE									
J. Glascott 02-06-2015	J. Hobbs	J. Hobbs	J. Hobbs	J. Hobbs	J. Hobbs				
D. Dykins 04-30-2015	D. Dykins	D. Dykins	D. Dykins	D. Dykins	D. Dykins				
D. Dykins 05-29-2015	D. Dykins	D. Dykins	D. Dykins	D. Dykins	D. Dykins				

NO.	REVISIONS	DATE
1	SITE PLAN CHANGE	04-30-2015
2	SITE PLAN CHANGE	05-29-2015
3	FOR WILL COUNTY DOT SUBMITTAL	06-30-2015
4	PER W.ALAGE COMMENTS	07-29-2015

EQUIPMENT PLAN
DIESEL EXPANSION

18400 96TH AVENUE
WILL COUNTY
TINLEY PARK, IL

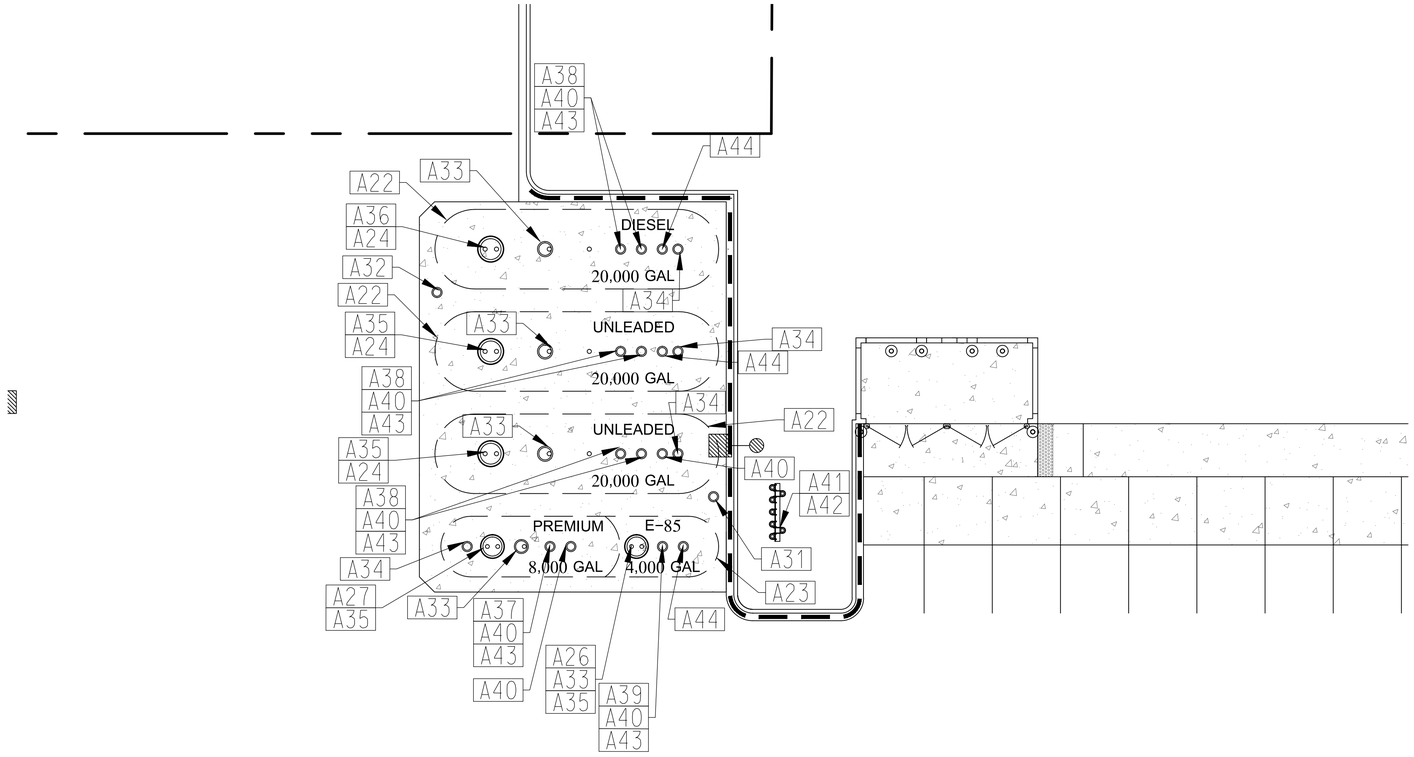
STORE OR BLDG NO. 0001413

VERSION OR AFE NO. 85926

SCALE 0 30'
1" = 30'-0"

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 QS1



SITE EQUIPMENT LIST

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A3	DISPENSERS, GILBARCO 3+1 PRODUCT (DSL), HIGH HOSE W/CARDREADER	2	O	C	SOME DISP. ASSEMBLY REQ'D
A4	DISPENSER, GILBARCO 3+1 PRODUCT (E85), HIGH HOSE W/CARDREADER	1	O	C	SOME DISP. ASSEMBLY REQ'D
A6	DISPENSERS, MASTER/MASTER COMBO, GILBARCO 1 PRODUCT (DSL), HIGH HOSE W/CARDREADER	2	O	C	SOME DISP. ASSEMBLY REQ'D
A10	HOSES, NOZZELS, SWIVELS, BREAKAWAYS	20	O	C	GASOLINE DISP.
A11	HOSES, NOZZLES, SWIVELS, BREAKAWAYS	4	O	C	DIESEL DISP.
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A13	HOSES, NOZZLES, SWIVELS, BREAKAWAYS	4	O	C	HIGH FLOW DSL DISP.
A15	ISLAND FORMS, 4' X 5' X 13"	12	O	C	HOLD 6" ABOVE PVMT
A17	OPW FIBERGLASS SUMPS, DISPENSER	12	O	C	ALL UPP PIPED DISPENSERS, STD-PQ AND STD-TF SERIES
A22	TANKS 20,000 GALLON, DOUBLEWALL FIBERGLASS	3	O	C	STE-PQ SERIES / STD-TF SERIES
A23	TANKS, 12,000 GALLON, DUAL COMPARTMENT DOUBLEWALL FIBERGLASS	1	O	C	STD-PQ SERIES
A24	PUMPS, SUBMERSIBLE 4 H.P., VARIABLE SPEED	3	O	C	STD-PQ SERIES / STD-TF SERIES
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B8	SIGN, "SPEEDWAY", CANOPY FASCIA SIGN	2	O	V	SEE SIGNAGE PLAN.
B9	SIGN, "S" LOGO, CANOPY FASCIA SIGN	2	O	V	SEE SIGNAGE PLAN.
B14	LANE IDENTIFIER, AUTO				SEE SIGNAGE PLAN.
	NUMBERED	24	O	C	ON EACH CANOPY COLUMN
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B26	AUTO AIR SERVICE MACHINE	1	V	V	STD-QS-1, CONCRETE SLAB AND CONDUIT BY CONTRACTOR
C1	AUTO CANOPY, 183.72' X 39.43' W/ (14) ROUND COLUMNS	14	V	V	BASE & ELECT. BY CONTRACTOR. ANCHOR BOLTS SUPPLIED BY VENDOR
D1	AUTO WINDSHIELD SERVICE CABINETS	12	O	C	ON BUILDING SIDE OF AUTO CANOPY, ON EVERY COLUMN. SEE SIGNAGE PLAN.

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NO.	REVISIONS	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
1	SITE PLAN CHANGE	J. Glascott	J. Hosea	R. Yost	T. Abrams	01-30-15
2	SITE PLAN CHANGE	J. Glascott	J. Hosea	R. Yost	T. Abrams	02-06-15
3	FOR WILL COUNTY DOT SUBMITTAL	J. Glascott	J. Hosea	R. Yost	T. Abrams	03-09-15
4	PER MILAGE COMMENTS	J. Glascott	J. Hosea	R. Yost	T. Abrams	07-30-2015

EQUIPMENT PLAN DETAILS
DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

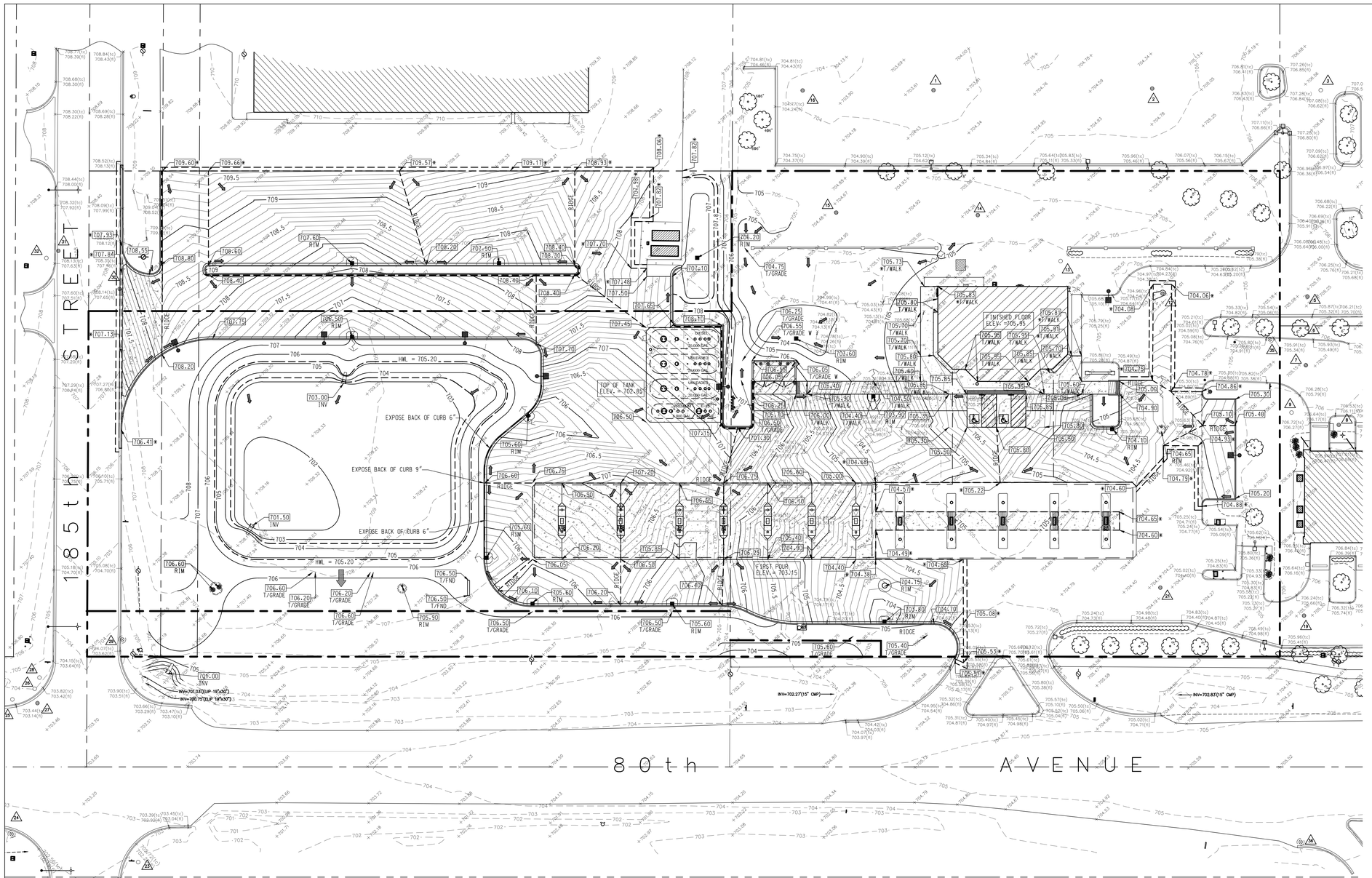
STORE OR BLDG NO. 0001413

VERSION OR AFE NO. 85926

SCALE 0 30'
1" = 30'-0"

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 QS2



GRADING LEGEND

- EXISTING GRADE POINT
- 000.00 — PROPOSED GRADE POINT
- *000.00 — INTERPOLATED PROPOSED GRADE
- 000 — EXISTING CONTOUR LINE
- 000 — PROPOSED CONTOUR LINE
- PROPOSED REVERSE GUTTER PICTH
- PROPOSED HIGH BACK CURB AND GUTTER
- OVERLAND FLOW ARROW
- 100 YEAR EMERGENCY OVERFLOW
- 100 YEAR OVERFLOW PATH
- EXISTING STORM / SANITARY MANHOLE
- EXISTING OPEN GRATE MANHOLE
- EXISTING STORM INLET
- EXISTING STORM STRUCTURE
- EXISTING FIRE HYDRANT
- EXISTING B-BOX / SERVICE VALVE
- OR — PROPOSED CLOSED LID MANHOLE
- OR — PROPOSED OPEN RIM CATCH BASIN / MANHOLE / INLET
- PROPOSED STORMCEPTOR STC-4501 TREATMENT UNIT
- PROPOSED RESTRICTOR CATCH BASIN
- PROPOSED FLARED END SECTION
- PROPOSED WATER VALVE WITH VAULT
- INTERPOLATED ELEVATION

A. GENERAL NOTES

1. CONTRACTOR TO USE EXTREME CAUTION WHEN GRADING IN AND AROUND EXISTING UTILITIES. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH PRIOR TO START OF CONSTRUCTION.
2. EXCAVATE SOILS AS NECESSARY TO COMPLETE PROPOSED CONSTRUCTION. UNLESS OTHERWISE DIRECTED (REFER TO GEOTECHNICAL REPORT), USE ALL EXCAVATED SOILS AS FILL ON SITE. ANY SOILS THAT CANNOT BE UTILIZED ON SITE SHALL BE LOADED DIRECTLY ONTO TRANSPORT TRUCKS AND HAULED TO OWNER'S APPROVED LOCATION. ANY IMPACTED SOILS ENCOUNTERED SHALL BE LOADED SEPARATELY AND SHALL NOT BE COMMINGLED WITH CLEAN SOILS. BID AS ALTERNATE B: IMPACTED SOILS SHALL BE PLACED ON MINIMUM 6 MIL. VISQUEEN AND COVERED WITH 40' X 100' SHEETS OF 4 MIL. VISQUEEN. A SAND BERM SHALL BE CONSTRUCTED AROUND ENTIRE PILE OF SOIL TO HOLD THE VISQUEEN DOWN. ALL SEAMS OR OVERLAP (6" MINIMUM) IN THE VISQUEEN COVERING SHALL BE SECURED WITH WEIGHTED MATERIAL.
3. BID AS ALTERNATE C: PROVIDE DEWATERING NECESSARY FOR ANY EXCAVATIONS AND TO PREVENT TANKS FROM FLOATING WHILE THE TANKS ARE NOT COVERED BY PROPER OVERBURDEN. DEWATERING SHALL CONSIST OF SUPPLYING EQUIPMENT AND LABOR TO MAINTAIN PUMPING ACTIVITIES AS NECESSARY. COORDINATE WITH OWNER'S REPRESENTATIVE TO DETERMINE WHERE WATER CAN BE PUMPED. IDENTIFY THIS COST AS A SPECIFIC LINE ITEM IN THE BID. DISPOSAL OF CONTAMINATED WATER SHALL BE THE OWNER'S RESPONSIBILITY.
4. THE ENVIRONMENTAL CONSULTANT AND THE CONTRACTOR SHALL USE THE "SOILS WORKSHEET" TO ACCOUNT FOR ALL EXCAVATED SOILS.
5. A REPORT OF THE SUBSURFACE INVESTIGATION IS MADE AVAILABLE TO THE CONTRACTOR AT TIME OF BIDDING. THE BASE BID SHALL INCLUDE LAND BALANCING ACTIVITIES BASED ON THE ASSUMPTION THAT EXCAVATED SOIL CAN BE REUSED AS NECESSARY FOR CONSTRUCTION. UPON REVIEWING THE SUBSURFACE INVESTIGATION, CONTRACTOR SHALL INCLUDE THE FOLLOWING AS ALTERNATE: A. OVER-EXCAVATE AREAS OF UNSUITABLE SOILS AND STABILIZE AREAS PER THE SUBSURFACE INVESTIGATION. ESTIMATE QUANTITY OF OVER-EXCAVATED AREAS AND REPLACEMENT BACKFILL IN EACH AREA, ALONG WITH THE TYPE OF BACKFILL. ACTUAL QUANTITIES WILL BE VERIFIED DURING CONSTRUCTION PER THE DIRECTION OF THE GEOTECH CONSULTANT AND OWNER'S REPRESENTATIVE. ▼ WITH DETAILED CHANGE ORDERS SUBMITTED TO OWNER.
6. ANY DISCREPANCIES BETWEEN ELEVATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE DESIGN ENGINEER.

EXISTING UTILITY DATA

1. RIM=703.26" (STORM) 48" CONCRETE STRUCTURE INV=700.71" (12" RCP N/S)
2. RIM=704.06" (STORM) 48" CONCRETE STRUCTURE INV=700.08" (18" RCP W/S) INV=700.08" (12" RCP W/S)
3. RIM=704.57" (STORM) 48" CONCRETE STRUCTURE INV=700.68" (18" RCP NE/S) INV=700.17" (12" RCP W)
4. RIM=704.41" (STORM) 48" CONCRETE STRUCTURE INV=699.78" (24" RCP N) INV=699.78" (10" RCP SE) INV=699.78" (18" RCP SW)
5. RIM=704.57" (STORM) 48" CONCRETE STRUCTURE INV=700.12" (18" RCP NW) INV=700.21" (12" RCP E) INV=700.21" (10" RCP S)
6. RIM=706.01" (STORM) 48" CONCRETE STRUCTURE INV=700.28" (12" RCP W) INV=701.91" (12" RCP E)
7. RIM=704.95" (STORM) 48" CONCRETE STRUCTURE INV=702.96" (12" RCP W/NE)
8. RIM=706.50" (STORM) 48" CONCRETE STRUCTURE INV=703.25" (8" PVC N/S) INV=702.56" (12" RCP SW)
9. RIM=706.35" (SANITARY) 48" CONCRETE STRUCTURE INV=698.57" (8" PVC NW) INV=700.25" (8" D.I. E)
10. RIM=706.75" (SANITARY) 48" CONCRETE STRUCTURE INV=697.23" (8" PVC SE/W)
11. RIM=706.65" (SANITARY) 48" CONCRETE STRUCTURE INV=696.72" (8" PVC N/S/E)
12. RIM=703.99" (STORM) 48" CONCRETE STRUCTURE INV=700.44" (15" RCP NW) INV=700.44" (12" RCP S) INV=700.44" (12" RCP E)
13. RIM=705.20" (SANITARY) 48" CONCRETE STRUCTURE INV=697.24" (8" PVC N) INV=699.24" (8" PVC E)
14. RIM=704.55" (STORM) 48" CONCRETE STRUCTURE INV=700.73" (12" RCP N) INV=700.80" (12" RCP SE/S)
15. RIM=704.13" (STORM) 24" CONCRETE STRUCTURE INV=702.49" (12" RCP N)
16. RIM=703.64" (STORM) 48" CONCRETE STRUCTURE INV=700.88" (12" RCP N/W)
17. RIM=703.94" (STORM) 48" CONCRETE STRUCTURE INV=701.31" (12" RCP NW/S)
18. RIM=703.71" (STORM) 24" CONCRETE STRUCTURE INV=701.57" (12" RCP NW)
19. RIM=705.16" (STORM) 24" CONCRETE STRUCTURE INV=702.91" (12" RCP NW)
20. RIM=706.67" (STORM) 48" CONCRETE STRUCTURE INV=702.57" (12" CL N) INV=702.72" (12" RCP SE) INV=703.72" (8" PVC SE)
21. RIM=704.53" (STORM) 48" CONCRETE STRUCTURE INV=701.01" (12" RCP W/S)
22. RIM=704.04" (STORM) 24" CONCRETE STRUCTURE INV=701.56" (12" RCP N)
23. RIM=702.85" (SANITARY) 48" CONCRETE STRUCTURE INV=681.50" (24" RCP SW/E)
24. RIM=703.06" (WATER) 72" CONCRETE STRUCTURE 5.40' TO TOP OF 24" MAIN N/S
25. RIM=703.31" (SANITARY) 48" CONCRETE STRUCTURE INV=683.45" (24" RCP N) INV=681.63" (24" RCP S/NE)
26. RIM=704.02" (STORM) 48" CONCRETE STRUCTURE INV=700.24" (19"X30" RCP N) INV=700.24" (12" RCP E) INV=700.24" (24" RCP S)
27. RIM=703.23" (STORM) 48" CONCRETE STRUCTURE UNABLE TO OPEN
28. RIM=704.15" (STORM) 60" CONCRETE STRUCTURE INV=700.62" (19"X30" RCP N/S) INV=704.02" (10" RCP W)
29. RIM=704.32" (WATER) 48" CONCRETE STRUCTURE 5.15' TO TOP OF 12" MAIN E/W
30. RIM=707.62" (STORM) 48" CONCRETE STRUCTURE INV=704.87" (12" RCP SW)
31. RIM=707.67" (STORM) 48" CONCRETE STRUCTURE INV=704.50" (12" RCP NE/SE)
32. RIM=708.25" (STORM) 60" CONCRETE STRUCTURE INV=703.90" (12" RCP NW) INV=703.00" (21" RCP E/W)
33. RIM=709.01" (STORM) 60" CONCRETE STRUCTURE INV=705.56" (21" RCP E)
34. RIM=709.14" (WATER) 60" CONCRETE STRUCTURE 5.10' TO TOP OF 12" MAIN E/W
35. RIM=705.35" (WATER) 48" CONCRETE STRUCTURE 5.85' TO TOP OF 10" MAIN N/S
36. RIM=704.67" (WATER) FROZEN STRUCTURE NO PIPES VISABLE

Proposed Detention Storage Volume - South Basin

Elevation	Area			Incremental Storage Volume	Cumulative Storage Volume		
706.00	17,114 Sq. Ft.	OR	0.3929 Ac.				
				12,887 Cu. Ft.	46,734 Cu. Ft.	OR	1.0729 Ac-Ft
705.20	15,104 Sq. Ft.	OR	0.3467 Ac.				
				2,973 Cu. Ft.	33,847 Cu. Ft.	OR	0.7770 Ac-Ft
705.00	14,625 Sq. Ft.	OR	0.3357 Ac.				
				13,430 Cu. Ft.	30,874 Cu. Ft.	OR	0.7088 Ac-Ft
704.00	12,235 Sq. Ft.	OR	0.2809 Ac.				
				6,374 Cu. Ft.	17,444 Cu. Ft.	OR	0.4005 Ac-Ft
703.45	10,945 Sq. Ft.	OR	0.2513 Ac.				
				4,699 Cu. Ft.	11,069 Cu. Ft.	OR	0.2541 Ac-Ft
703.00	9,941 Sq. Ft.	OR	0.2282 Ac.				
				6,020 Cu. Ft.	6,370 Cu. Ft.	OR	0.1462 Ac-Ft
702.00	2,099 Sq. Ft.	OR	0.0482 Ac.				
				350 Cu. Ft.	350 Cu. Ft.	OR	0.0080 Ac-Ft
701.50	0 Sq. Ft.	OR	0.0000 Ac.				

TOTAL POND $V_{705.20}$= 33,847 CU. FT.
OR 0.7770 AC-FT

NORTH

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

NO.	REVISIONS	DESIGNED	PROJ. MGR.	CHECKED	DATE
1	SITE PLAN CHANGE	J. Glascott	R. Yost	J. Hadaia	01-26-2015
2	SITE PLAN CHANGE	J. Glascott	R. Yost	J. Hadaia	02-19-2015
3	FOR WILL COUNTY DOT SUBMITTAL	J. Glascott	R. Yost	J. Hadaia	03-19-2015
4	PER VILLAGE COMMENTS	J. Glascott	R. Yost	J. Hadaia	05-29-2015

GRADING PLAN DIESEL EXPANSION

16400 90TH AVENUE
WILL COUNTY
TINLEY PARK, IL

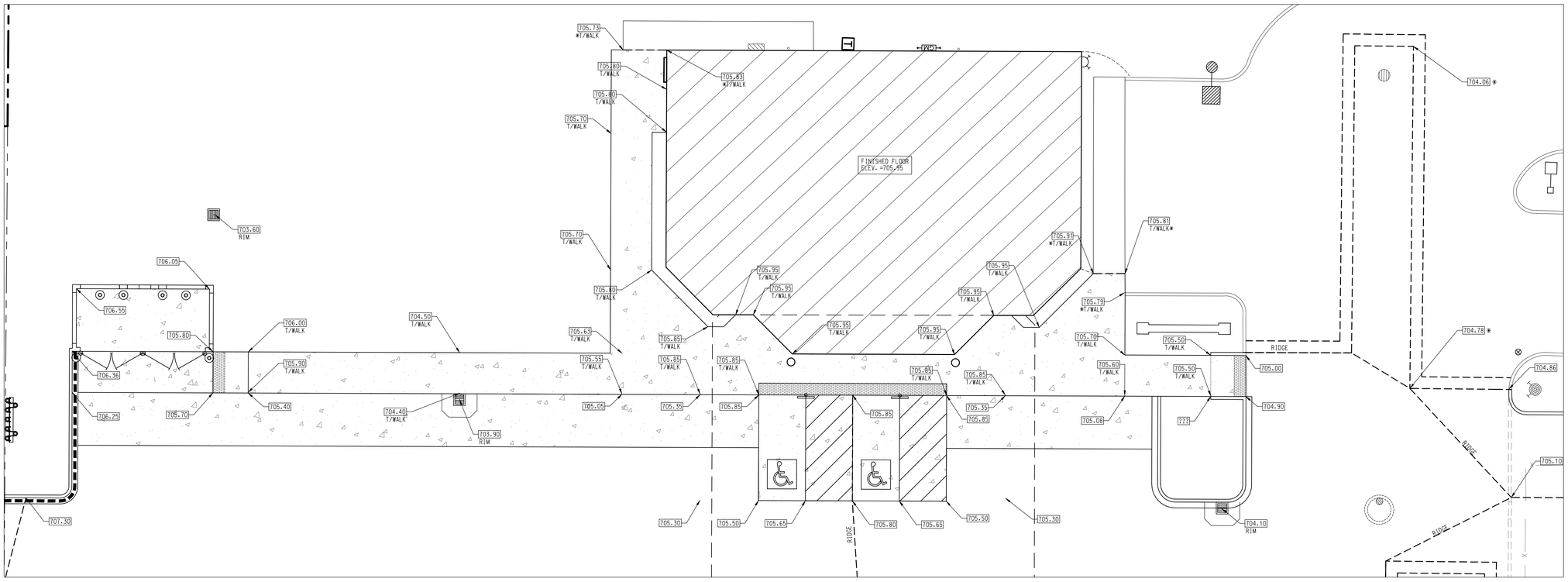
STORE OR BLDG NO. 0001413
VERSION OR AFE NO. 85926
SCALE 0 30' 1" = 30'-0"

DESIGN TEAM	DATE
DGNR. J. GLASCOTT	02/06/15
P.MGR. R. YOST	02/06/15
RVWR. T. ABRAMS	02/06/15

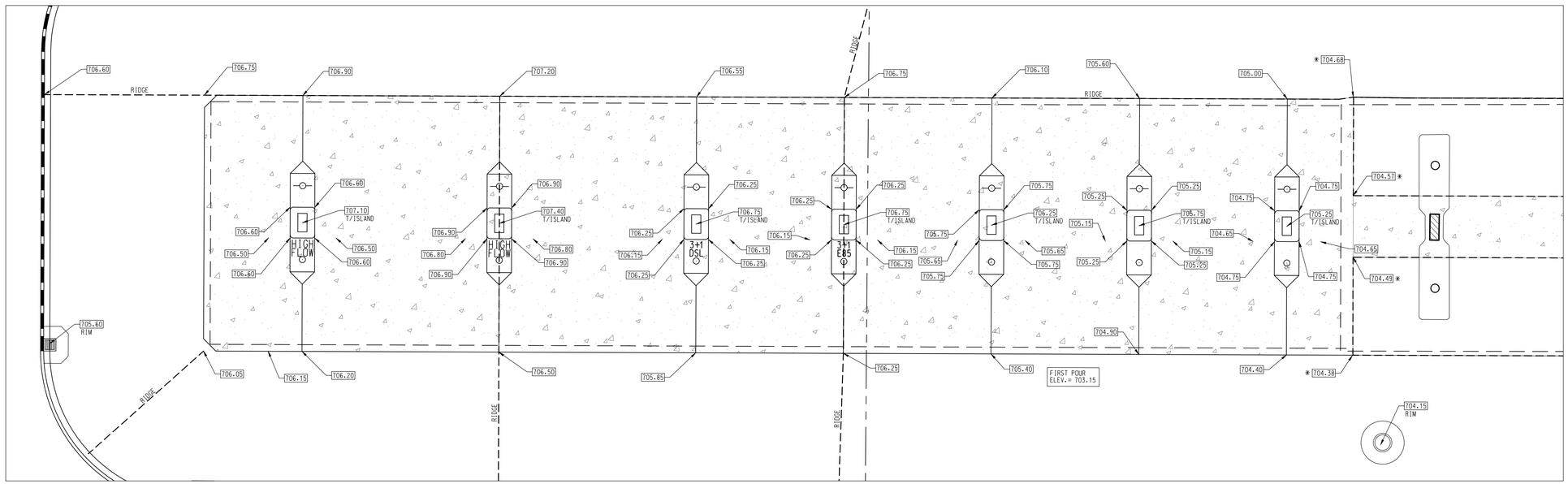
DRWG. NO. 1413 CG1

NOTES:

1. ALL SPOT GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. SEE SHEET 1413 CG1 FOR ADDITIONAL GRADES ON THE SITE.
3. ANY DISCREPANCY BETWEEN SPOT ELEVATIONS ON THIS SHEET AND 1413 CG1 SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE DESIGN ENGINEER.



BUILDING AREA GRADING DETAIL



CAR FUELING ISLAND GRADING DETAIL

NORTH

WT-CIVIL JOB# CE14144

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
IL. License No.: 184-003492 Exp: 04/30/17

Speedway®

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

NO.	REVISIONS	DESIGNER	PROJ. MGR.	REVIEWER
		DATE	DATE	DATE
1	SITE PLAN CHANGE	J. Glascott 10-30-2015	J. Hobbs 10-30-2015	T. Adams 10-30-2015
2	SITE PLAN CHANGE	J. Glascott 11-20-2015	J. Hobbs 11-20-2015	T. Adams 11-20-2015
3	FOR WILL COUNTY DOT SUBMITTAL	J. Glascott 12-04-2015	J. Hobbs 12-04-2015	T. Adams 12-04-2015
4	PER MUGE COMMENTS	J. Glascott 02-19-2015	J. Hobbs 02-19-2015	T. Adams 02-19-2015

GRADING PLAN DETAILS DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR BLDG NO. 0001413
VERSION OR AFE NO. 85926
SCALE 0 10'
1" = 10'-0"

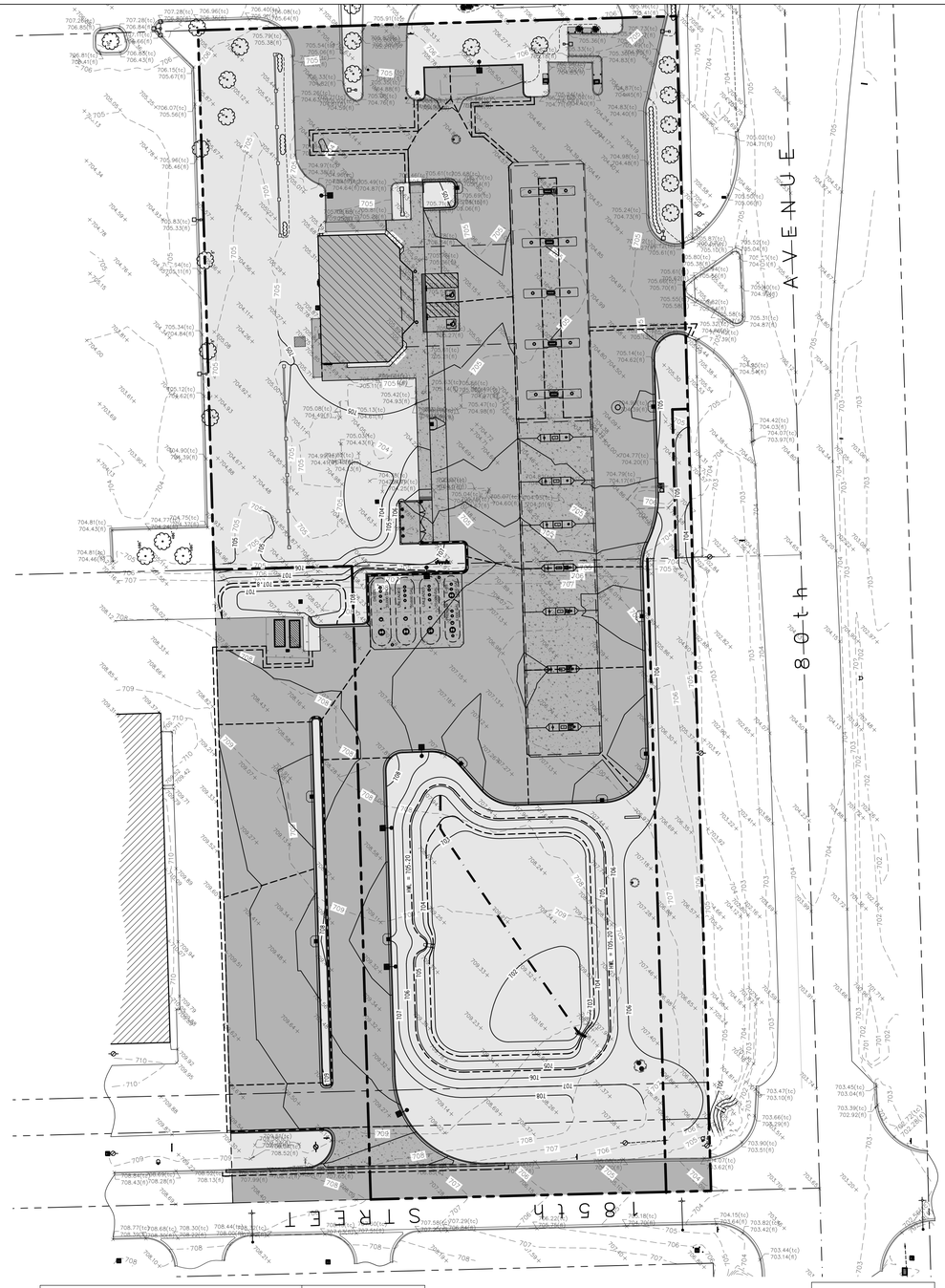
DESIGN TEAM	DATE
DGNR. J. GLASCOTT	02/06/15
P.MGR. R. YOST	02/06/15
RVWR. T. ABRAMS	02/06/15

DRWG. NO. 1413 CG2

EXISTING CONDITION	AREA (ACRES)
PERVIOUS AREA (ACRES)	2.243
IMPERVIOUS AREA (ACRES)	1.693
TOTAL AREA (ACRES)	3.936

HATCH	
PERVIOUS	
IMPERVIOUS	

NORTH



PROPOSED CONDITION	AREA (ACRES)
PERVIOUS AREA (ACRES)	1.708
IMPERVIOUS AREA (ACRES)	2.228
TOTAL AREA (ACRES)	3.936

HATCH	
PERVIOUS	
IMPERVIOUS	

TC PATH

NORTH

WT-CIVIL JOB# CE14144

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Speedway

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

NO.	REVISIONS	DESIGNER	PROJ. MGR.	REVIEWER
		DATE	DATE	DATE
1	SITE PLAN CHANGE	J. Glascott 11-5-2014	J. Hobbs 11-5-2014	R. Dykins 11-5-2014
2	SITE PLAN CHANGE	J. Glascott 12-5-2014	J. Hobbs 12-5-2014	R. Dykins 12-5-2014
3	FOR WILL COUNTY DOT SUBMITTAL	J. Glascott 01-29-2015	J. Hobbs 01-29-2015	R. Dykins 01-29-2015
4	PER VILLAGE COMMENTS			

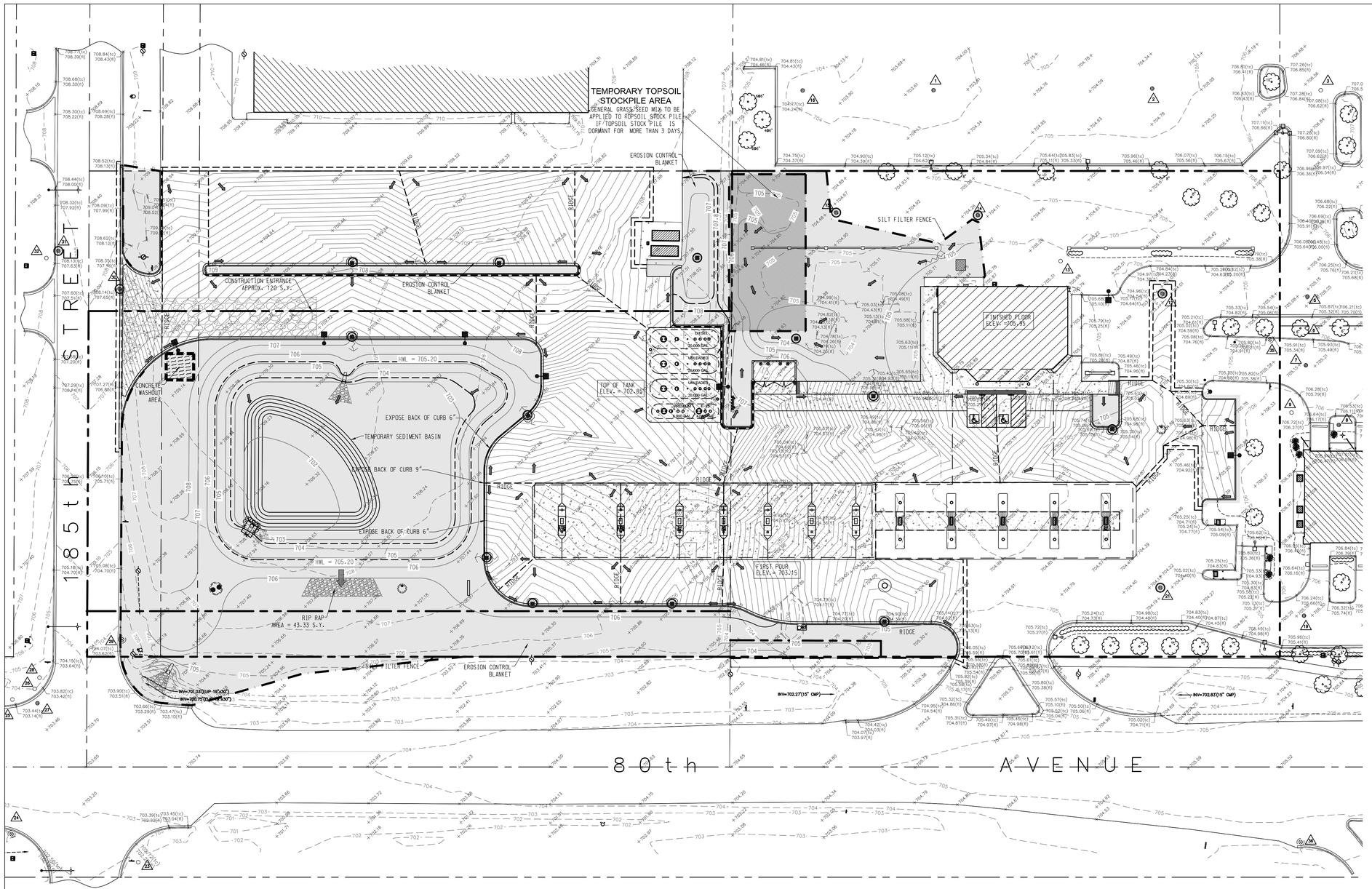
PRE-POST DRAINAGE PLAN
DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR BLDG NO. 0001413
VERSION OR AFE NO. 85926
SCALE 0 30'
1" = 30'-0"

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 CG3



SWPPP LEGEND

- EXISTING GRADE POINT
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- PROPOSED RETAINING CURB AND GUTTER
- EXISTING STORM CURB INLET
- EXISTING STORM / SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING B-BOX
- PROPOSED CLOSED LID MANHOLE
- PROPOSED OPEN RIM CATCH BASIN / MANHOLE/ INLET
- PROPOSED 72" RESTRICTOR STRUCTURE
- PROPOSED STORMCEPTOR STC-4501 TREATMENT UNIT
- PROPOSED WATER VALVE WITH VAULT
- PROPOSED FIRE HYDRANT
- OVERLAND FLOW ARROW
- 100 YEAR OVERFLOW PATH
- DS75 EROSION CONTROL BLANKET WITH 6" **BIO-STAKES** AS MANUFACTURED BY NORTH AMERICAN GREEN. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- SILT FILTER FENCE
- CATCH-IT FILTER BASKET
- SILT FENCE INLET PROTECTION

A. GENERAL NOTES

1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2. CLASS 1 WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 1.5" X 1.5" OR A STANDARD STEEL POST.
4. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL WELL.
5. PROVIDE DUST CONTROL WATERING IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS NECESSARY DURING CONSTRUCTION TO CONTROL AIRBORNE DUST. ALL WATER USED FOR DUST CONTROL SHALL BE PUMPED AND FILTERED BEFORE IT IS ALLOWED TO LEAVE THE SITE.

B. MAINTENANCE NOTES

1. FILTER BARRIERS, INCLUDING BUT NOT LIMITED TO SILT FENCE AND INLET PROTECTION, SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
3. IF THE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

C. CONSTRUCTION SEQUENCE

1. ENSURE NOTICE OF INTENT (N.O.I.) IS FILED. INSTALL EROSION CONTROL MEASURES INCLUDING INLET PROTECTION DEVICES AND SILT FENCE AS SHOWN ON THE SOIL EROSION PLAN.
2. INSPECTION OF EROSION CONTROL MEASURES AS OUTLINED IN NOTES. REPAIRS AND/OR REPLACEMENTS SHALL BE MADE AS NECESSARY.
3. STRIP AND STOCKPILE TOPSOIL.
4. COMPLETE CONSTRUCTION ACTIVITIES.
5. REDISTRIBUTE TOPSOIL PER LANDSCAPE PLAN. ALL AREAS DISTURBED BY CONSTRUCTION THAT WILL NOT BE PAVED SHALL BE GRADED AND HAVE VEGETATION ESTABLISHED PER LANDSCAPE PLAN.
6. REMOVE SOIL EROSION CONTROL MEASURES AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED. ENSURE NOTICE OF TERMINATION (N.O.T.) IS FILED.

NOTE:
CONTRACTOR TO PROVIDE W-T CIVIL ENGINEERING WITH COPIES OF ALL SWPPP REPORTS FOR 3 YEARS FOLLOWING CONSTRUCTION.

WT-CIVIL JOB# CE14144

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Speedway®

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

NO.	REVISIONS	DESIGNER	PANEL CHK	REVIEWER	DATE
1	SITE PLAN CHANGE	G. GLASCOTT	J. HASSA	R. YOST	01-30-15
2	SITE PLAN CHANGE	G. GLASCOTT	J. HASSA	R. YOST	02-18-15
3	PER WILL COUNTY DOT SUBMITTAL	G. GLASCOTT	J. HASSA	T. ABRAMS	02-25-15
4	PER VILLAGE COMMENTS	G. GLASCOTT	J. HASSA	T. ABRAMS	05-29-2015

STORMWATER POLLUTION PREVENTION PLAN
DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

STORE OR BLDG NO. 0001413

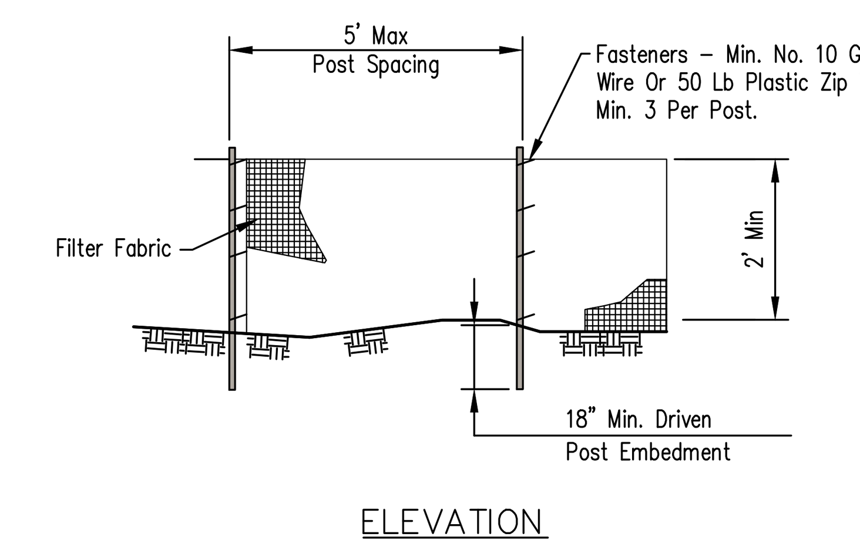
VERSION OR AFE NO. 85926

SCALE 0 30'
1" = 30'-0"

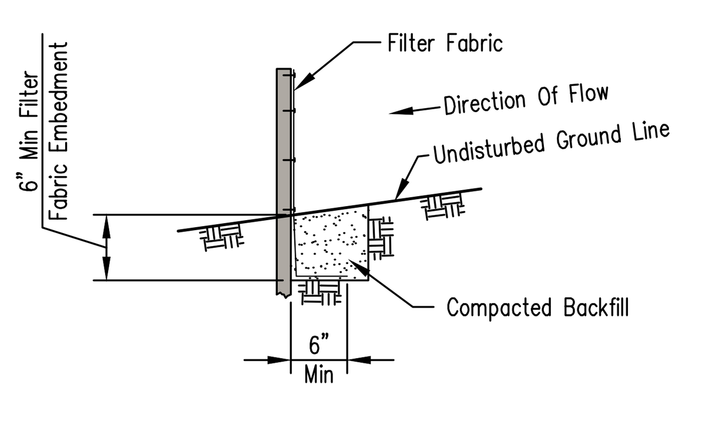
DESIGN TEAM	DATE
DGNR. J. GLASCOTT	02/06/15
P.MGR. R. YOST	02/06/15
RVWR. T. ABRAMS	02/06/15

DRWG. NO.
1413 CE1

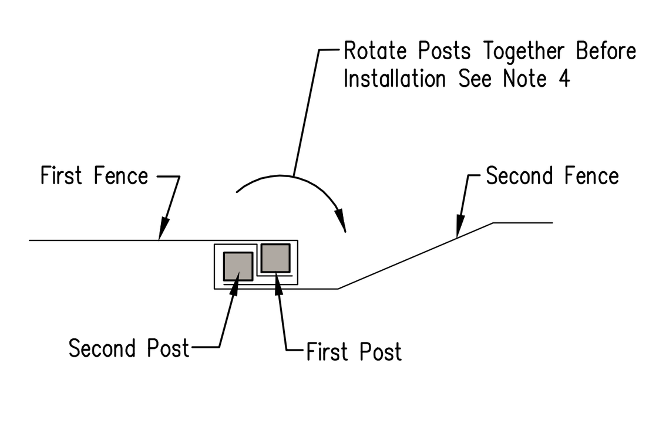
NORTH



ELEVATION



FABRIC ANCHOR DETAIL



SPLICE DETAIL–PLAN VIEW

NOTES:

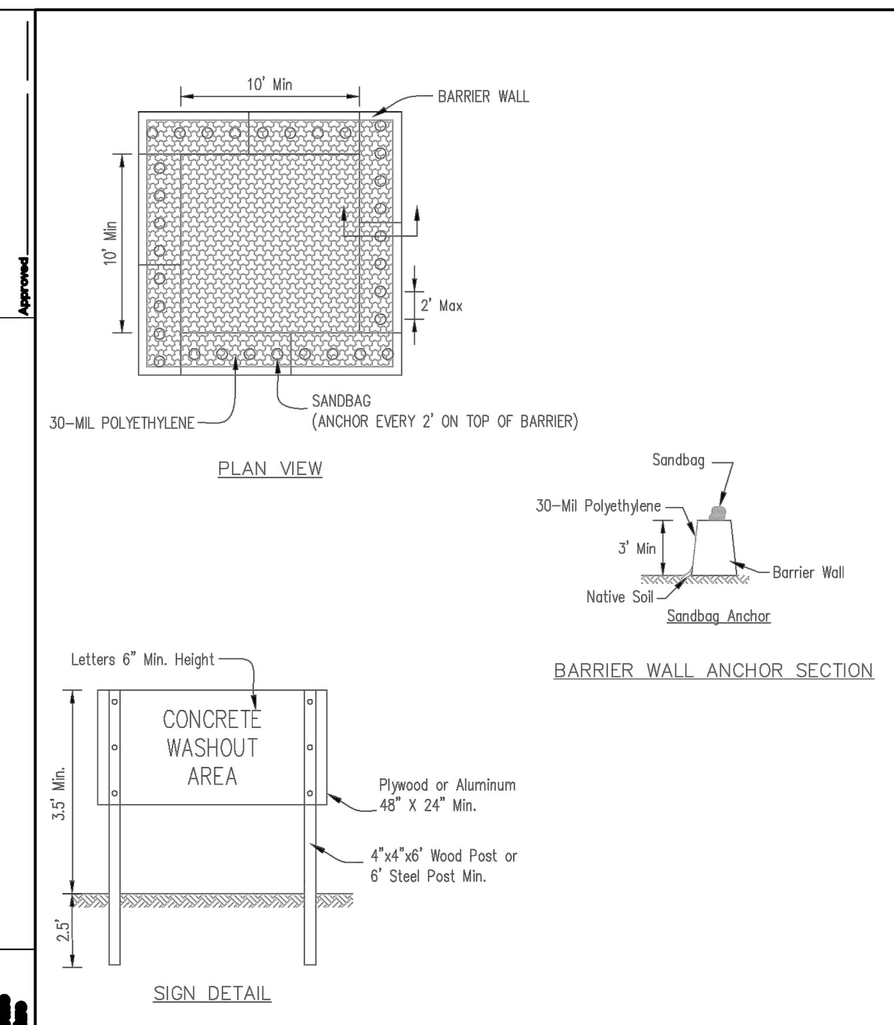
1. Temporary silt fence shall be installed prior to any grading work in the area to be protected. Fence shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either wood post with a minimum cross-sectional area of 1.5" X 1.5" or a standard steel post.
4. When splices are necessary make splice at post according to splice detail. Place the end post of the second fence inside the end post of the first fence. Rotate both posts together at least 180 degrees to create a tight seal with the fabric material. Cut the fabric near the bottom of the posts to accommodate the 6 inch flap. Then drive both posts and bury the flap. Compact backfill well.

Designed — Drawn M. QUINONES — Checked — Date 1/13

SILT FENCE

NRCS

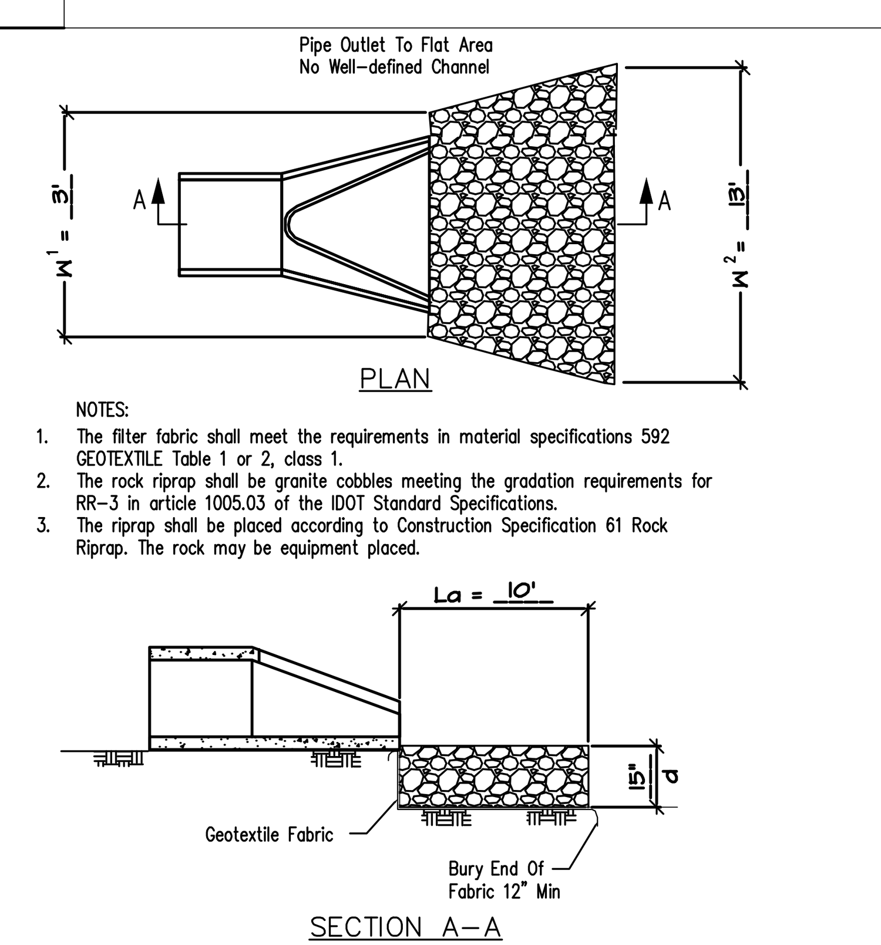
File No. IL-ENG-49



NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL



NOTES:

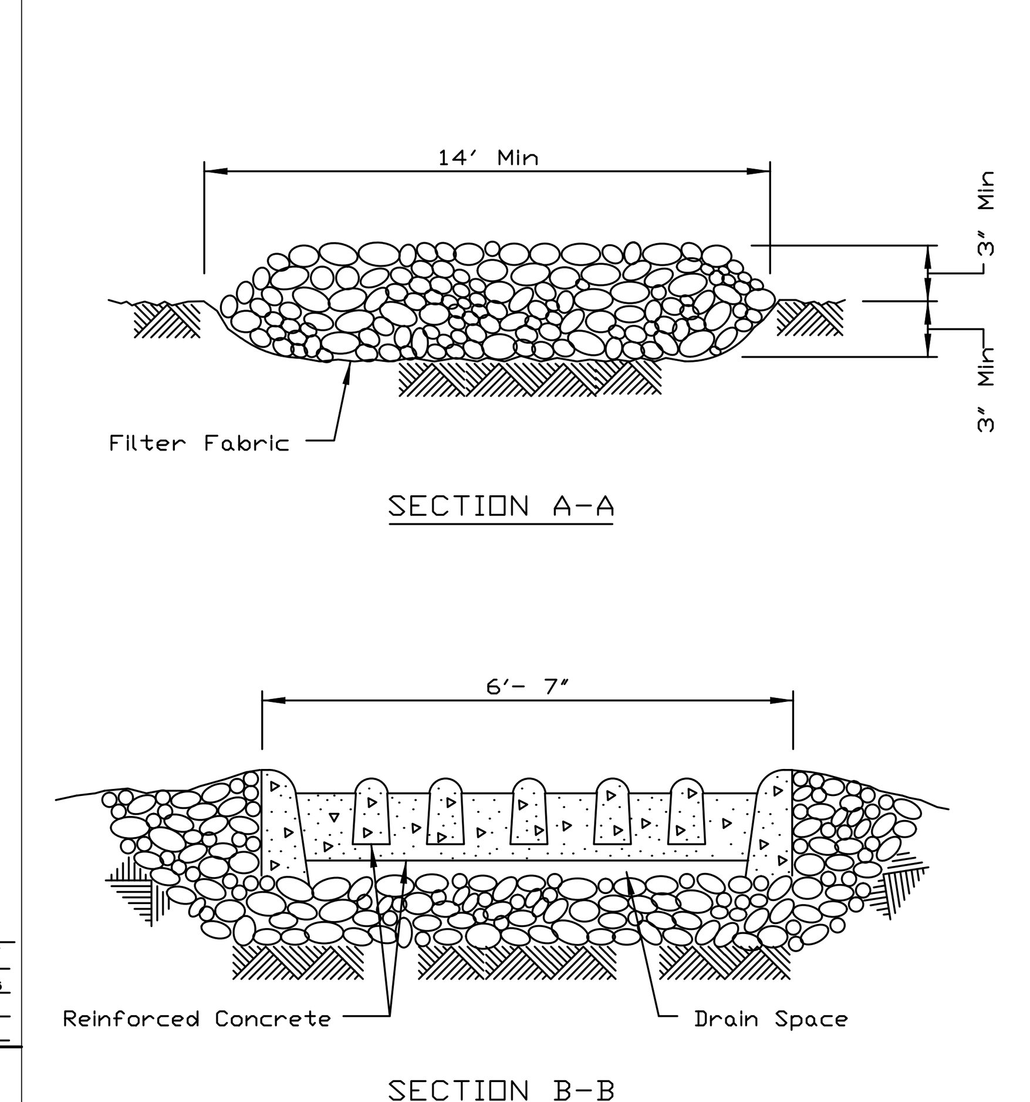
1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class 1.
2. The rock riprap shall be graded according to the gradation requirements for RR-3 in article 1005.03 of the IDOT Standard Specifications.
3. The riprap shall be placed according to Construction Specification 61 Rock Riprap. The rock may be equipment placed.

DETAIL - 12" F.E.S. RIP RAP

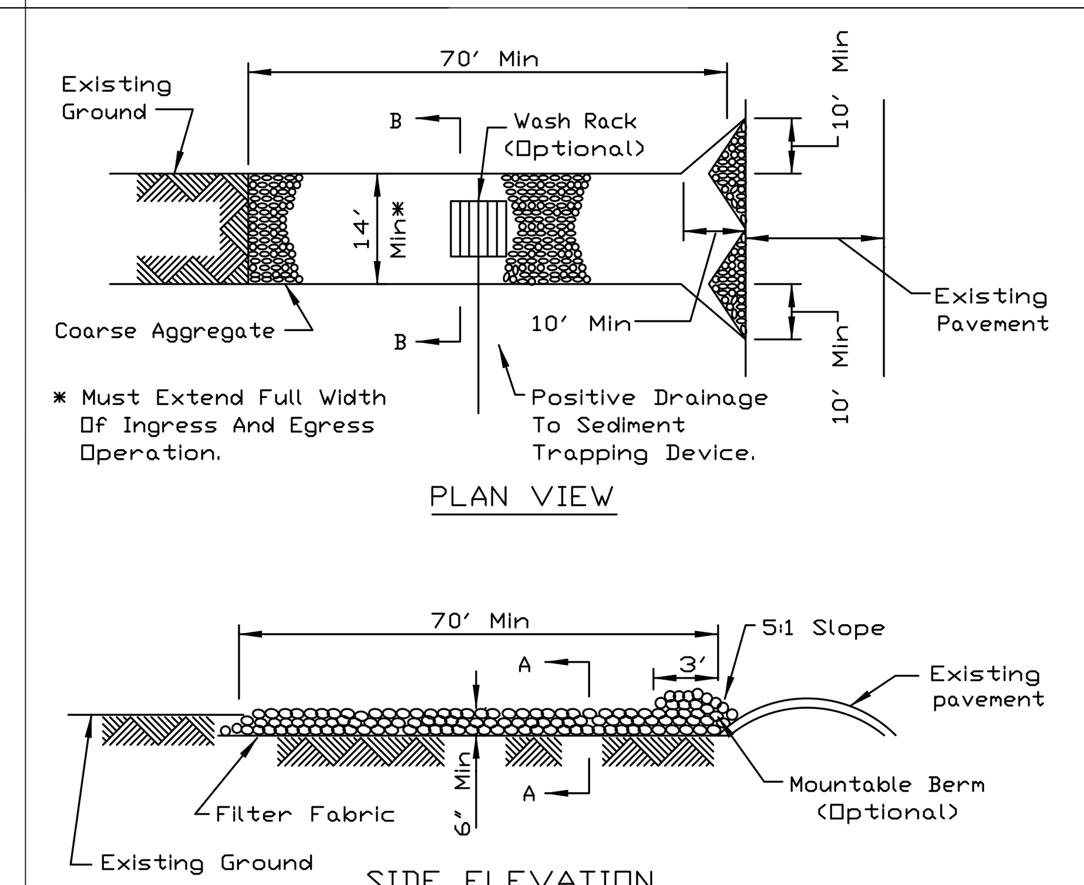
NOT TO SCALE

NRCS — PIPE OUTLET TO FLAT AREA — IL-ENG-44 — Drawn M. QUINONES

STABILIZED CONSTRUCTION ENTRANCE PLAN



STABILIZED CONSTRUCTION ENTRANCE PLAN

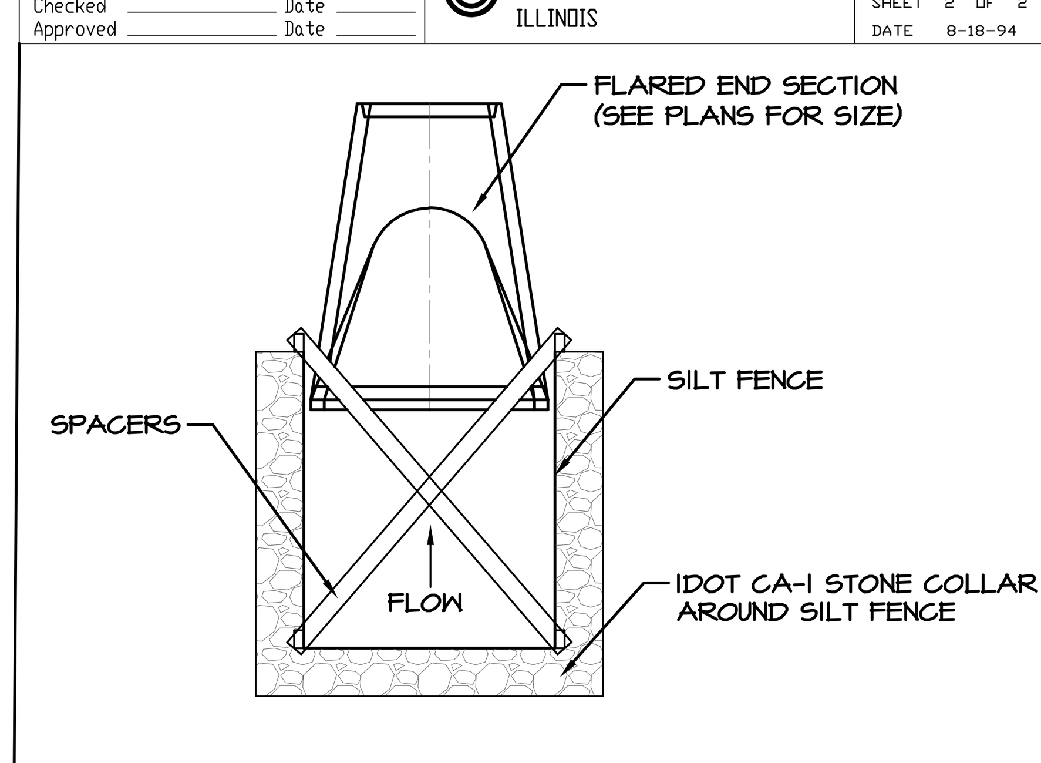


NOTES:

1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufactures specifications.

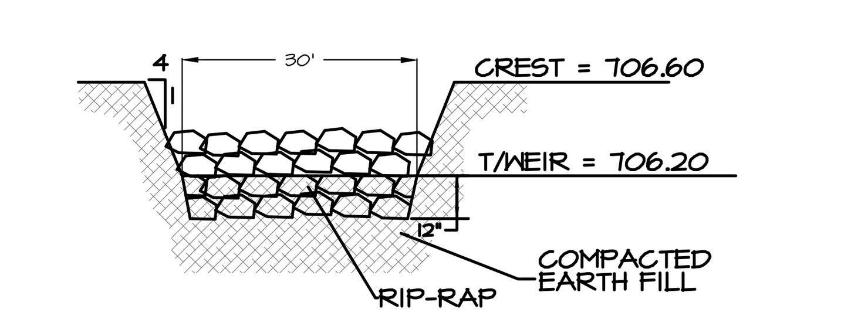
REFERENCE	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630
Project / Designed ___ Date ___ / Checked ___ Date ___ / Approved ___ Date ___		SHEET 2 OF 2 — DATE 8-18-94

REFERENCE	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630
Project / Designed ___ Date ___ / Checked ___ Date ___ / Approved ___ Date ___		SHEET 1 OF 2 — DATE 8-18-94



DETAIL - SILT FENCE INLET PROTECTION

NOT TO SCALE



OVERFLOW WEIR CROSS SECTION

NOT TO SCALE

SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION SCHEDULE

1. OBTAIN NPDES AND OTHER APPLICABLE SITE PERMITS AND REVIEW PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL PERIMETER SEDIMENT CONTROL MEASURES (E.G. SILT FENCE).
4. INSTALL PROTECTION DEVICES FOR EXISTING DRAINAGE INLET AND OUTLET STRUCTURES, IF APPLICABLE.
5. PERFORM STORMWATER POLLUTION PREVENTION SITE INSPECTIONS ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). AT A MINIMUM, THE INSPECTIONS SHALL INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, ALL STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ANY ADDITIONAL BEST MANAGEMENT PRACTICES IDENTIFIED IN THE SWPPP.

5.1. ALL SITE EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION (SEE THE STORMWATER POLLUTION PREVENTION NOTES AND STORMWATER POLLUTION PREVENTION MAINTENANCE SCHEDULE FOR ADDITIONAL INFORMATION). CONTRACTOR SHALL MAKE AND COMPLETE THE REQUIRED REPAIRS WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.

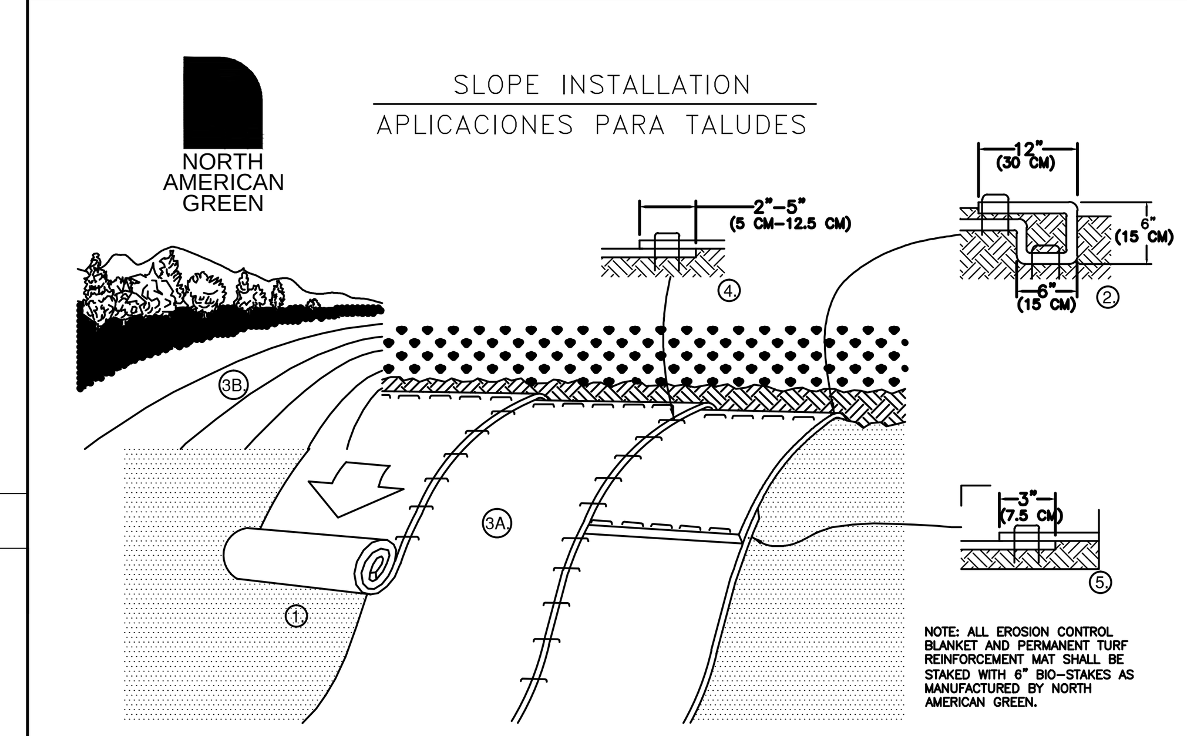
5.2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL STRUCTURAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE SITE INSPECTIONS.

6. PERFORM SITE CLEARING AND GRUBBING AND REMOVE EXISTING VEGETATION AS NEEDED FOR INITIAL SITE GRADING OPERATIONS. VEGETATED SITE AREAS THAT ARE NOT INCLUDED WITH THE INITIAL GRADING SHALL REMAIN UNDISTURBED. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE AND STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
7. PERFORM ROUGH GRADING OPERATIONS, CONSTRUCT OVERFLOW ROUTES, AND STABILIZE ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO STEEP SLOPES, DRAINAGE CHANNELS AND SWALES (I.E. TEMPORARY AND PERMANENT SEEDING, EROSION CONTROL BLANKETS, RIP-RAP, CHECK DAMS, TEMPORARY DRAINAGE DIVERSIONS, ETC.).
8. INSTALL DETENTION SYSTEMS, STORM SEWERS AND OTHER SITE UTILITIES AND IMMEDIATELY INSTALL DRAINAGE INLET AND OUTLET PROTECTION DEVICES AS INDICATED ON THE PLANS.
9. PROVIDE TEMPORARY SEEDING AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN FOURTEEN (14) DAYS.
10. INSTALL TEMPORARY CONCRETE WASHOUT FACILITY.
11. INSTALL CANOPY EXPANSION AND UNDERGROUND FUEL PIPING.
12. INSTALL CURBS AND BEGIN SITE PAVING OPERATIONS (I.E. DRIVEWAYS, SIDEWALKS, ETC.).
13. PERFORM STREET CLEANING OPERATIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED.
14. SUBMIT A NOTICE OF TERMINATION (N.O.T.) TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY UPON COMPLETION OF ALL SITE CONSTRUCTION AND FINAL SITE STABILIZATION (I.E. OVER 70% VEGETATIVE COVER).
15. REMOVE TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.

NORTH AMERICAN GREEN

SLOPE INSTALLATION

APLICACIONES PARA TALUDES



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

STORM WATER POLLUTION PREVENTION NOTES

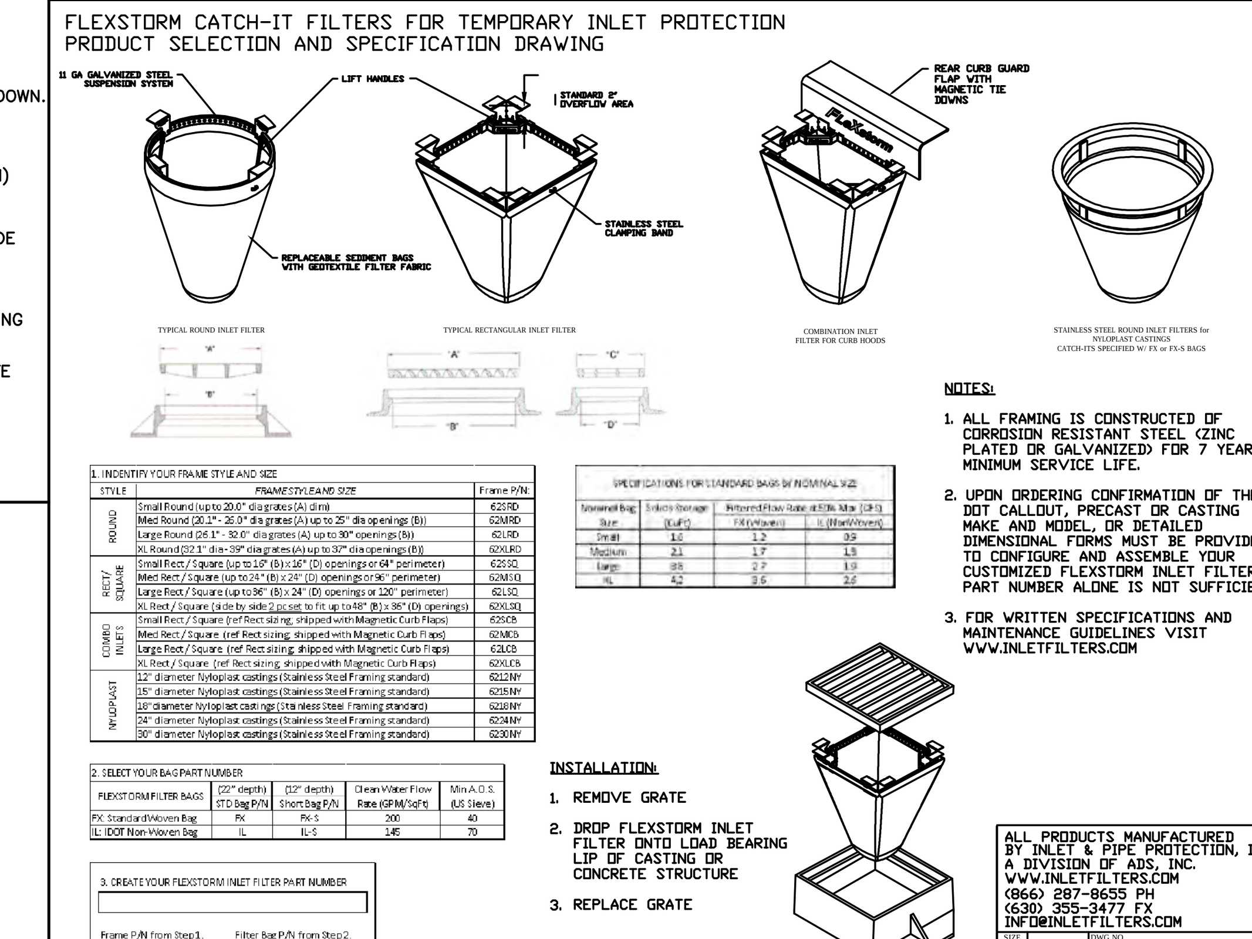
1. COPIES OF THE APPROVED STORM WATER POLLUTION PREVENTION PLANS SHALL BE MAINTAINED ON THE SITE AT ALL TIMES ALONG WITH THE PERMIT, INCIDENT OF NON-COMPLIANCE (I.O.N.) FORM AND INSPECTION FORMS.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED.
3. IF AFTER REPEATED FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY CONTROL EROSION, POLLUTION, AND/OR SILTATION, THE GOVERNING AUTHORITIES RESERVE THE RIGHT TO EFFECT NECESSARY CORRECTIVE MEASURES AND CHARGE ANY COSTS TO THE CONTRACTOR.
4. INLET PROTECTION SHALL BE INSTALLED AROUND EACH INLET OR CATCH BASIN. THESE SHALL BE MAINTAINED UNTIL THE TRIBUTARY DRAINAGE AREAS HAVE ADEQUATE GRASS COVER OR APPROPRIATE GROUND STABILIZATION.
5. ALL STREETS ADJACENT TO THE SITE SHALL BE KEPT FREE OF DIRT, MUD AND DEBRIS.
6. CONTRACTORS SHALL MINIMIZE BARE EARTH SURFACES DURING CONSTRUCTION.
7. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS IS PRACTICABLE.
8. WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, OR DITCHES SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED.
9. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEMS BY THE USE OF INLET PROTECTION OR OTHER APPROVED FUNCTIONAL METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
10. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
11. THE GOVERNING AUTHORITIES HAVING JURISDICTION OVER THE PROJECT SITE MUST BE NOTIFIED ONE (1) WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE (1) WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE (1) WEEK PRIOR TO THE FINAL INSPECTION.
12. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE REGULATORY AGENCIES.
13. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED OR OTHERWISE DISCHARGED FROM THE SITE INTO SEDIMENT BASINS, SILT TRAPS, DEWATERING BAGS OR POLYMER MIXING SWALE. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER SYSTEMS IS PROHIBITED.
14. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS AS OUTLINED IN THE ILLINOIS URBAN MANUAL.
15. ALL DISTURBED AREAS SHOULD BE SEEDED OR SODDED WITHIN THREE (3) DAYS OF FINAL DISTURBANCE.
16. ALL STOCKPILES SHOULD BE STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
17. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED AS FOLLOWS:

17.1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES ON A PORTION OF THE SITE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

17.2. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (I.E. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASES.

18. ILLINOIS PRE-QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). REQUIRED REPAIRS SHOULD BE COMPLETED WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.
19. EROSION CONTROL BLANKETS SHALL BE USED IN AREAS OF 6:1 SLOPE OR STEEPER.
20. ALL TEMPORARY EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PROPERLY STABILIZED OR DISPOSED OFF BY THE CONTRACTOR.
21. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO ADDITION PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY STORM WATER POLLUTION PREVENTION PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW.
22. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE FROM THE PROPOSED CONSTRUCTION ENTRANCE. THE USE OF ANY OTHER ACCESSES IS PROHIBITED.
23. ALL DISTURBED GREEN SPACES WITHIN THE R.O.W. SHALL BE RESTORED WITH 6" OF TOPSOIL AND CLASS 2A SEEDING.
24. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT THE SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABLIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.
25. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION.
26. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
27. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAT INDICATED ON THESE PLANS (INCLUDING BUT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE WILL-SOUTH COOK SWCD.
28. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE WILL-SOUTH COOK SWCD.
29. DURING DEWATERING OPERATION, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES, OR STORMWATER STRUCTURES IS PROHIBITED.
30. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUBCONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING



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STORMWATER POLUUTION PREVENTION PLAN DETAILS
DIESEL EXPANSION

18460 80TH AVENUE
WILL COUNTY
TINLEY PARK, IL

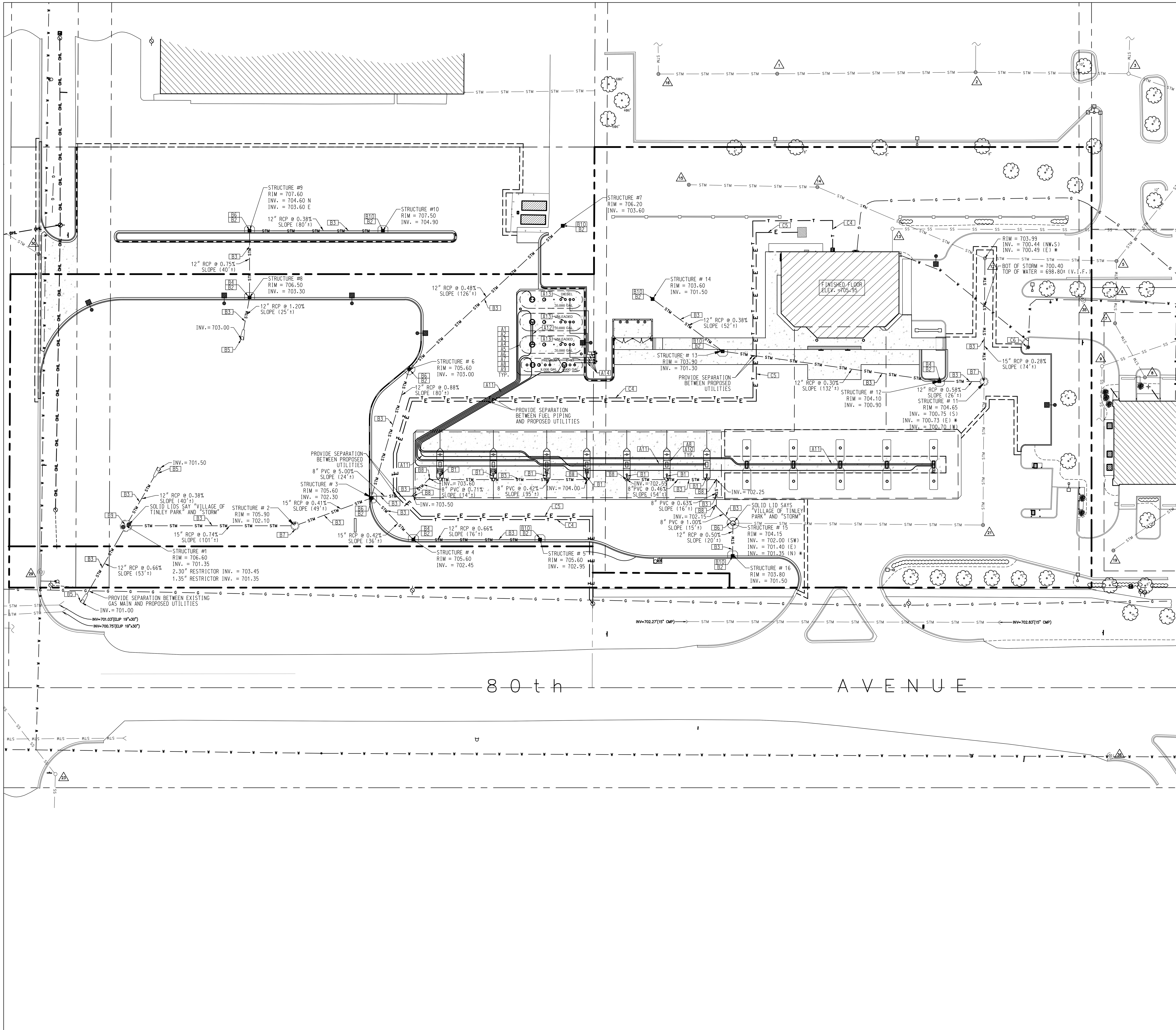
STORE OR BLDG NO. 0001413

VERSION OR AFE NO. 85926

SCALE 0 — NOT 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 CE2



UTILITY LEGEND

EXISTING STORM SEWER	EXISTING STORM / SANITARY MANHOLE
PROPOSED STORM SEWER	EXISTING OPEN GRATE MANHOLE
EXISTING SANITARY SEWER	EXISTING STORM INLET
PROPOSED SANITARY SEWER	EXISTING STORM STRUCTURE
EXISTING WATER MAIN	EXISTING FIRE HYDRANT
PROPOSED WATER SERVICE	EXISTING B-BOX / SERVICE VALVE
EXISTING GAS MAIN	PROPOSED CLOSED LID MANHOLE
PROPOSED GAS SERVICE	PROPOSED RESTRICTOR CATCH BASIN
EXISTING ELECTRIC SERVICE	PROPOSED FLARED END SECTION
PROPOSED ELECTRIC SERVICE	PROPOSED WATER VALVE WITH VAULT
EXISTING TELEPHONE LINE	INTERPOLATED ELEVATION
PROPOSED TELEPHONE LINE	PROPOSED B-BOX
EXISTING OVERHEAD LINES	PROPOSED FIRE HYDRANT
PROPOSED OVERHEAD LINES	PROPOSED OPEN RIM CATCH BASIN / MANHOLE / INLET
	PROPOSED STORMCEPTOR STC-450i TREATMENT UNIT

A. TANKS AND PRODUCT PIPING DETAILS

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AS INDICATED ON SERIES STD-PQ STD-TF, AND STD-DEF SERIES DRAWINGS.
2. ALL NEW INSTALLATIONS AND MODIFICATIONS TO THE UNDERGROUND STORAGE TANK SYSTEM SHALL COMPLY WITH PEI RP100-05, PEI RP300-09, API RP1615 AND ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
3. TANKS SHALL BE ANCHORED PER STANDARD DRAWING STD-PQ-5.
4. BID AS ALTERNATE D: SHEET PILE TANK HOLE AND FLOAT NEW TANKS INTO PLACE.
5. BID AS ALTERNATE E: SUPPLY AND INSTALL FILTER FABRIC LINER IN NEW TANK HOLE AND PRODUCT PIPING TRENCHES.
6. BALLAST TANKS TO 90% WITH CLEAN WATER. AFTER THE TANKS HAVE BEEN PROPERLY COVERED BY OVERBURDEN AND BEFORE PRODUCT IS DELIVERED, THE CONTRACTOR SHALL REMOVE ALL WATER. COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF PRODUCT. ANY WATER REMAINING IN TANKS AFTER PRODUCT DELIVERY SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
7. INSTALL TANK CONDUIT FROM TANK TO DISPENSER ELECTRICAL EQUIPMENT INSIDE BUILDING PER STD-PQ SERIES DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
8. INSTALL VEEDER ROOT LINE LEAK DETECTION AND ATG SYSTEM, RELATED MANHOLES, CONDUITS, JUNCTION BOXES PER DRAWING STD-EI-7 AND MANUFACTURER'S INSTRUCTIONS. INSTALL TANK INTERSTITIAL SENSORS FURNISHED BY OWNER.
9. INSTALL TANK SUMP SENSORS FURNISHED BY OWNER.
10. PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S. "A") OF DISPENSERS SHALL BE AS SHOWN. PIPING AND CONDUIT LOCATION AND SPACING UNDER DISPENSERS SHALL BE PER STD-PQ SERIES DRAWINGS.
11. INSTALL 2" COAXIAL FLEXIBLE PRODUCT PIPING (OPW FLEX LOOP SYSTEM) WITHIN 4" ACCESS/CONTAINMENT PIPE PER MANUFACTURER'S RECOMMENDATION AND SERIES STD-PQ DRAWINGS. THE PIPE, APPURTENANCES (INCLUDING BULKHEAD ENTRY FITTINGS), AND MISC. MATERIALS NECESSARY TO ASSEMBLE SYSTEM SHALL BE OWNER SUPPLIED.
12. INSTALL SIPHON LINE PER DETAILS ON STD-PQ SERIES DRAWINGS.
13. INSTALL A SECOND FILL PIPE ON 20,000 GALLON TANKS PER DETAILS ON THE STD-PQ SERIES DRAWINGS.
14. SUPPLY AND INSTALL 2" SINGLEWALL FIBERGLASS VENT LINES AND RELATED EQUIPMENT. CONTRACTOR TO LOCATE VENT STACKS A MINIMUM OF 10' AWAY FROM ELECTRICAL EQUIPMENT AND EXISTING BUILDING STRUCTURES.

B. STORM PIPING

1. A CLEANOUT SHALL BE INCLUDED AT EVERY CANOPY COLUMN WITH A DOWNSPOUT THAT IS CONNECTED TO STORM DRAINAGE SYSTEM AS INDICATED PER DRAWING STD-SB-1.
2. INSTALL FLEXSTORM PC+ FILTER BAGS WITH MYCLEX SKIMMER ONCE INLET PROTECTION DEVICES HAVE BEEN REMOVED FROM STRUCTURES FOLLOWING CONSTRUCTION.
3. SUPPLY AND INSTALL STORM DRAINAGE PIPING AS SHOWN PER STANDARD DRAWING SERIES STD-PS. ALL RCP PIPE SHALL BE CONSTRUCTED PER ASTM C-76 WITH O-RING JOINTS CONSTRUCTED PER ASTM C-443 UNLESS OTHERWISE NOTED.
4. CONSTRUCT (3) STANDARD DUTY CATCH BASIN, WITH SPIDER DRAINS, INCLUDING CONCRETE COLLAR IF IN ASPHALT PAVEMENT PER DRAWING #STD-PS-1. PROVIDE FLATTOP FOR STRUCTURES WITH LIMITED HEAD ROOM.
5. SUPPLY AND INSTALL (3) 12" PRECAST CONCRETE FLARED END SECTIONS WITH TRASH GRATE.
6. SUPPLY AND INSTALL (4) STANDARD DUTY MANHOLES, INCLUDING CONCRETE COLLAR IF IN ASPHALT PAVEMENT, PER DRAWING STD-PS-1. PROVIDE FLATTOP FOR STRUCTURES WITH LIMITED HEAD ROOM.
7. SUPPLY AND INSTALL (2) MODEL STC-450i STORMCEPTOR STORM WATER BMP SEDIMENT REMOVAL SYSTEMS PER MANUFACTURER'S SPECIFICATIONS. SEE SHEET 6210 CU2 FOR SYSTEM LAYOUT AND PREFERRED MANUFACTURER'S INFORMATION.
8. SUPPLY AND INSTALL CLEAN OUTS AT LOCATIONS SHOWN PER DRAWING STD-PS-1.
9. SUPPLY AND INSTALL (1) 72" DIA. PRECAST CONCRETE RESTRICTOR CATCH BASIN WITH 1.50" AND 2.50" RESTRICTORS. CONSTRUCT PER DETAIL ON SHEET 1413 CU2.
10. SUPPLY AND INSTALL (5) 24" DIA. PRECAST CONCRETE INLETS.

C. UTILITIES

1. VERIFY ALL SERVICE UTILITY ROUTINGS WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. VERIFY ALL UTILITY CLEARANCES ARE MAINTAINED PER LOCAL CODE.
2. ALL WORK WITHIN RIGHT-OF-WAY SHALL CONFORM TO GOVERNING STATE AND/OR LOCAL SPECIFICATIONS.
3. SITE CONTRACTOR TO BRING UTILITIES WITHIN 5' OF BUILDING AT LOCATIONS SHOWN. COORDINATE ALL BUILDING UTILITY CONNECTIONS WITH BUILDING DRAWINGS.
4. CONTRACTOR SHALL FURNISH AND INSTALL (1) 2" PVC CONDUIT WITH PULL STRING FROM TELEPHONE SERVICE CONNECTION TO BUILDING.
5. NEW UNDERGROUND 120/208V THREE PHASE ELECTRIC SERVICE SHALL BE INSTALLED PER BUILDING DRAWINGS. CONTRACTOR SHALL INSTALL CONDUITS AND CONDUCTORS FROM PAD MOUNTED TRANSFORMER TO BUILDING. CONTRACTOR SHALL SUPPLY AND INSTALL CONDUITS FOR PRIMARY POWER AS SPECIFIED BY LOCAL POWER COMPANY FROM POWER POLE TO TRANSFORMER. PRIMARY POWER CONDUCTORS SUPPLIED BY LOCAL POWER COMPANY.
6. CONTRACTOR SHALL FURNISH AND INSTALL NEW FIRE HYDRANT AND VALVE ON EXISTING WATER MAIN.
7. BID AS ALTERNATE F: CONTRACTOR SHALL DESIGN, SUPPLY, AND INSTALL IRRIGATION SYSTEM FOR ALL SODDED & PLANTER AREAS AS SHOWN ON LANDSCAPE PLAN. DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. INSTALL (1) ADDITIONAL 3/4" DIAMETER WATER LINE WITH METER FOR IRRIGATION SYSTEM.

EXISTING UTILITIES

1 — RIM=703.26' (STORM) 48" CONCRETE STRUCTURE INV=700.71' (12" RCP N/S)
2 — RIM=704.06' (STORM) 48" CONCRETE STRUCTURE INV=700.08' (18" RCP N) INV=700.08' (12" RCP W/S)
3 — RIM=706.57' (STORM) 48" CONCRETE STRUCTURE INV=700.08' (18" RCP NE/S) INV=700.17' (12" RCP W)
4 — RIM=704.41' (STORM) 48" CONCRETE STRUCTURE INV=699.78' (24" RCP N) INV=699.78' (15" RCP SE) INV=699.78' (18" RCP SW)
5 — RIM=704.95' (STORM) 48" CONCRETE STRUCTURE INV=700.12' (18" RCP NW) INV=700.21' (12" RCP E) INV=700.21' (15" RCP S)
6 — RIM=706.01' (STORM) 48" CONCRETE STRUCTURE INV=700.28' (12" RCP W) INV=701.91' (12" RCP E)
7 — RIM=704.95' (STORM) 48" CONCRETE STRUCTURE INV=702.06' (12" RCP W/NE)
8 — RIM=706.50' (STORM) 48" CONCRETE STRUCTURE INV=703.25' (6" PVC N/S) INV=702.56' (12" RCP SW)
9 — RIM=706.35' (SANITARY) 48" CONCRETE STRUCTURE INV=698.57' (8" PVC NW) INV=700.25' (8" D.I. E)
10 — RIM=706.75' (SANITARY) 48" CONCRETE STRUCTURE INV=697.23' (8" PVC SE/W)
11 — RIM=706.65' (SANITARY) 48" CONCRETE STRUCTURE INV=696.72' (8" PVC N/S/E)
12 — RIM=703.99' (STORM) 48" CONCRETE STRUCTURE INV=700.44' (15" RCP NW) INV=700.44' (12" RCP S) INV=700.49' (12" RCP E)
13 — RIM=705.29' (SANITARY) 48" CONCRETE STRUCTURE INV=697.24' (8" PVC N) INV=699.24' (6" PVC E)
14 — RIM=704.10' (STORM) 48" CONCRETE STRUCTURE INV=700.73' (12" RCP N) INV=700.80' (12" RCP SE/S)
15 — RIM=704.17' (STORM) 24" CONCRETE STRUCTURE INV=702.49' (12" RCP N)
16 — RIM=703.64' (STORM) 48" CONCRETE STRUCTURE INV=700.88' (12" RCP N/W)
17 — RIM=703.94' (STORM) 48" CONCRETE STRUCTURE INV=701.31 (12" RCP NW/S)
18 — RIM=703.71' (STORM) 24" CONCRETE STRUCTURE INV=701.57' (12" RCP NW)
19 — RIM=705.16' (STORM) 24" CONCRETE STRUCTURE INV=702.91' (12" RCP NW)
20 — 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)
21 — RIM=704.13' (STORM) 48" CONCRETE STRUCTURE INV=701.01' (12" RCP W/S)
22 — RIM=704.04' (STORM) 24" CONCRETE STRUCTURE INV=701.59' (12" RCP N)
23 — RIM=702.85' (SANITARY) 48" CONCRETE STRUCTURE INV=681.55' (24" RCP SW/E)
24 — RIM=703.08' (WATER) 72" CONCRETE STRUCTURE 5.40' TO TOP OF 24" MAIN N/S
25 — RIM=703.31' (SANITARY) 48" CONCRETE STRUCTURE INV=682.45' (12" PVC N) INV=681.63' (24" RCP S/NE)
26 — RIM=704.02' (STORM) 48" CONCRETE STRUCTURE INV=700.24' (19"X30" RCP N) INV=700.24' (12" RCP E) INV=700.24' (24" RCP S)
27 — RIM=703.23' (STORM) 48" CONCRETE STRUCTURE UNABLE TO OPEN
28 — RIM=704.15' (STORM) 60" CONCRETE STRUCTURE INV=700.62' (19"X30" RCP N/S) INV=700.62' (21" RCP W)
29 — RIM=704.32' (WATER) 48" CONCRETE STRUCTURE 5.15' TO TOP OF 12" MAIN E/W
30 — RIM=707.62' (STORM) 48" CONCRETE STRUCTURE INV=704.67' (12" RCP SW)
31 — RIM=707.67' (STORM) 48" CONCRETE STRUCTURE INV=704.50' (12" RCP NE/SE)
32 — RIM=708.25' (STORM) 60" CONCRETE STRUCTURE INV=703.90' (12" RCP NW) INV=701.00' (21" RCP E/W)
33 — RIM=709.01' (STORM) 60" CONCRETE STRUCTURE INV=701.56' (21" RCP E)
34 — RIM=709.14' (WATER) 60" CONCRETE STRUCTURE 5.10' TO TOP OF 12" MAIN E/W
35 — RIM=705.35' (WATER) 48" CONCRETE STRUCTURE 5.65' TO TOP OF 10" MAIN N/S
36 — RIM=704.67' (WATER) FROZEN STRUCTURE NO PIPES VISABLE

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PIPING AND UTILITIES PLAN DIESEL EXPANSION

18460 80TH AVENUE
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TINLEY PARK, IL

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