Date:	September 4, 2020
То:	Town of Eagle Plan Commission and Town Board
From:	Tim Schwecke, AICP, Town Planner
Subject:	Site plan and plan of operation for a new retail business (Dollar General) located at northeast corner of Godfrey Lane and CTH NN (EGLT1818999021); The Overland Group (Jacob Stauffer, agent and Joe Mayer, consultant)
Application:	2020-17; <u>https://s.zoninghub.com/U6GWBGL6EG</u>
Meeting:	September 10, 2020 Plan Commission – Town Board meeting

Previous reviews The Plan Commission/Town Board reviewed this matter at their meeting on August 3, 2020, and it was tabled to this meeting.

The applicant has since prepared a revised application including new plans. The first part of the attached letter addresses technical issues raised by the Town Engineer. The letter also describes changes that have been made based on the Plan Commission's input.

Staff comments/questions for applicant:

- 1. Please confirm that there will be no outside storage of merchandise.
- 2. Please confirm that metal shipping containers will not be kept on-site.
- 3. Please confirm the numbers of employees that will be on-site working at the same time.
- 4. A Plan Commissioner requested a floor plan for the proposed building along with some interior images/photos.
- 5. Please confirm hours of operation.
- 6. Please verify that all outdoor light fixtures are full cut off.
- 7. Please verify how the outdoor lighting will be lowered during off hours.
- 8. What is the height of the parking lot lights?
- 9. Will the wall signs be internally lit? There are gooseneck light fixtures above the sign.

Proposed motion for Plan Commission Recommend to the Town Board the approval of the site plan/plan of operation as described in the petitioner's application, subject to the following conditions:

- 1. Prior to any land disturbing activity, the applicant must submit a complete and final set of plans to the Town Planner. The Town Engineer must verify in writing whether they have approved the final plans within their purview. Any outstanding matters must be resolved to staff's satisfaction.
- 2. Prior to any land-disturbing activity, the applicant must reimburse the Town for any outstanding charges and establish an escrow account with the Town as may be required.
- 3. Prior to any land-disturbing activity, the certified survey map (CSM) creating the parcel for the project must be recorded in the Waukesha County register of deeds office, as approved by the Town of Mukwonago.
- 4. The applicant must obtain all required building permits within nine months of this date, and start construction within six months of the date of building permit issuance and continue in good faith to completion.

- 5. All work related to this project must comply with all project plans approved by the Town.
- 6. The applicant must submit details for the dumpster enclosure, meeting code requirements, to the Town Planner for review and approval.
- 7. The property owner obtains a zoning permit for the approved building within 6 months of this date.
- 8. The property owner obtains a building permit for the approved building within 9 months of this date and completes the authorized work within one year of obtaining the permit.
- 9. The property owner obtains all other approvals as may be required to construct the building as planned (e.g., fire department review).
- 10. The property owner will need to obtain a permit for any onsite signage as set forth in the Town's sign code.
- 11. Prior to issuance of an occupancy permit by the building inspector, the Town Planner and Town Engineer must determine that all onsite improvements have been completed including landscaping.
- 12. Prior to issuance of an occupancy permit by the building inspector, the stormwater maintenance agreement (SWMA), as approved by the engineer, must be recorded in the Waukesha County register of deeds office.
- 13. Merchandise shall not be kept out of doors.
- 14. Shipping containers which may be used to store merchandise shall not be kept on site.
- 15. Outdoor lighting levels shall be lowered during off hours, but kept at sufficient levels to provide public safety.
- 16. _____
- 17. _____

Attachments:

- 1. Correspondence dated August 14, 2020
- 2. Revised plan set along with supplemental materials

August 14, 2020

Mr. Tim Schwecke Town of Eagle 820 E. Main Street Eagle, WI 53119

RE: Dollar General Store Preliminary Plan Review for Dollar General Eagle, Wisconsin

Dear Mr. Schwecke,

We are in response to multiple sets of review comments provided by the Town of Eagle regarding the proposed Dollar General Store located at the northeast corner of County Highway NN and Godfrey Lane. Received correspondence include:

- Engineering Review Memo by Lynch and Associates; dated August 4th, 2020
- Staff Report on the Proposed Site Plan and Plan of Operations; dated July 30, 2020
- Staff Report on the Proposed Certified Survey Map; dated July 30, 2020

In addition to the correspondence received above, Kimley-Horn has also provided responses to the site plan, landscape plan, and architectural comments discussed at the Plan Commission Meeting on August 3, 2020. Below is a summary of the actions taken in response to these comments.

Engineering Review Memo by Lynch and Associates; dated August 4th, 2020

- The legend indicates the areas of the standard asphalt and heavy-duty asphalt. Please provide the corresponding pavement cross sections. Also, provide details for the sidewalk.
 Response: Pavement sections for asphalt and sidewalk have been included on sheet C7.0.
- Verify the building FFE. The plan elevation and cross section elevation are different. Response: The FFE is 921.50, which has been corrected on the Plan and Cross Section on Sheet C5.0.
- 3. The top of curb and flowline elevations appear to be reversed along the front edge of the walk. Response: Top of curb and flowline elevations have been revised to show correct values. See Sheet C5.0.
- 4. Label proposed pipe with pipe diameter, pipe type, and length on C2.0. Response: Sanitary and storm pipes have been labeled accordingly, see Sheet C6.0.
- The sidewalk along the building is less than 1% in slope and the slope should be increased to provide better drainage away from the building.
 Response: The proposed sidewalk grades along the building have been revised to increase the slope to a value greater than 1%, but less than 2.0%. See sheet C5.0.
- The drainage away from the rear of the building does not meet requirements of SPS 321.12. Response: The drainage away from the rear of the building has been increased above 0.5" per 12" (4.167%) for at least the first 10 feet. See Sheet C5.0.

- Add soil boring locations to the pond.
 Response: A geotechnical report performed by Terracon Consultants, Inc. dated August 5, 2020 has been included with this resubmittal.
- 8. It appears that fill is being placed on the septic area. Will it be a mound system or conventional? Response: The septic field will be a conventional system. The grading has been revised to avoid fill in the septic area (<6" with no compaction).
- 9. The pond discharge pipe in the CTH NN right of way is lower than the ditch grades shown to the east and west. It appears the ditch run off could backflow into the pond. Response: Based on the field survey, the ditch flows from West to East. The detention pond normal water elevation is 916.50, the outlet to the ditch is 916.40, and then ditch flows east as shown by the 916.30 spot located at the southeast corner. The detention pond normal water level was set 0.1' above the ditch to avoid additional fill on site.
- Any work in the CTH NN right of way will require a permit from Waukesha County. Please provide a copy of the permit once it has been received.
 Response: Comment noted. The Site Plan and CSM has been sent to Waukesha County for review. Future correspondence will be sent to the Town.
- 11. Provide an erosion control plan with accompanying details. Response: The Erosion Control Plan and Details are included in sheet C4.0 and C4.1 of the Final Engineering Plans.
- 12. Add water service size and roof drain size along with the sizing calculations. Response: The water service has been sized as a 1.5-inch Type-K Copper line and has been labeled on the Utility Plan, See Sheet C6.0. The roof drains are sized at 6-inches, sizing calculations have been provided in the Drainage Report attached with this resubmittal.
- 13. The invert for D1 in the structure table differs from the invert labeled on C2.0.. Response: The outfall invert for structure D1 has been revised for consistency on the Utility Plan and Grading Plan.
- 14. Note 12 in the utility notes state light poles are shown. Please add light pole locations to the site plan. Response: Light poles and their locations have been added to the Site Plan (C3.0) and Utility plan (C6.0).
- 15. Notes 17, 19, and 20 reference Kenosha Water Utility. Please revise the reference. **Response: Notes 17, 19 and 20 have been removed from the Utility Notes.**
- Provide details for the pond outlet structure, manholes, inlets and rip rap.
 Response: Construction details for utility structures and rip rap have been provided on sheet
 C7.0 and C7.1 of the Final Engineering Plans

Staff Report on the Proposed Site Plan and Plan of Operations; dated July 30, 2020

 The property owner must reimburse the Town for any and all fees paid by the Town for technical assistance in reviewing and enforcing this approval. Such payments shall be paid upon request of the Town. The Town Clerk's office shall provide owner/applicant with itemized invoices. Response: Comment Noted.

- The applicant must submit details for the dumpster enclosure, meeting code requirements, to the Town Planner for review and approval.
 Response: Per discussion at Plan Commission, the Dumpster Enclosure will be enhanced to masonry, which is noted on the Site Plan, Sheet C3.0. Dumpster Enclosure details will be submitted with the building permit application.
- The applicant must provide documentation to the Town Planner to ensure that all light fixtures are fullcut off.
 Response: Standard Dollar General light specifications have been provided for the Town Planner's Review.
- 4. The property owner obtains a zoning permit for the approved building within 6 months of this date. **Response: Comment Noted.**
- The property owner obtains a building permit for the approved building within 9 months of this date and completes the authorized work within one year of obtaining the permit.
 Response: Comment Noted.
- The property owner obtains all other approvals as may be required to construct the building as planned (e.g., fire department review).
 Response: Comment Noted.

Staff Report on the Proposed Certified Survey Map; dated July 30, 2020

- Include a vision triangle at the intersection of CTH NN. Response: Per coordination with Waukesha County, the Vision Triangle will be measure 150 ft along the centerline of Highway NN and 100 ft along the centerline of Godfrey Lane. The Vision Triangle has been added to the Site Plan, Landscape Plan, and CSM.
- 2. Include a no-access restriction on CTH NN. Response: The restriction has been added to the CSM.
- Add a signature block for the Village of Eagle because the subject property is located within the Village's extraterritorial review authority (i.e., 1.5 miles).
 Response: The Village of Eagle signature block has been added to the CSM.

Plan Commission Comments; August 3, 2020

Building Elevations

- Provide Masonry building materials on the east elevation.
 Response: All four elevations of the building are now masonry see revised elevations.
- Provide pilasters on the east elevation to break up the façade. Response: Vertical elements and pilasters have been provided on the revised building elevations.
- Provide a parapet wall on the east elevation.
 Response: A parapet wall has been provided on the east elevation. See revised elevations.
- 4. Provide 8" deep by 12" wide pilasters per Town Code. Response: The necessary depth and width of pilasters has been provided – See Site Plan.

5. Move the entry door on the west elevation to encourage parking on the west side of the building. Response: The entry door has been moved to the west elevation – See Site Plan.

Site Plan/Landscape Plan

- The Dumpster enclosure needs to be masonry given its visibility from the street. Response: A masonry dumpster has been proposed. See Site Plan. Materials to match the proposed architectural elevations.
- Provide a 'vision triangle" at the corner and adjust the Pylon Sign accordingly. (distance to be confirmed with County) Response: The vision triangle dimensions have been confirmed with Waukesha County and shown on the site plan accordingly.
- Provide additional plantings with pine trees on the West Elevation.
 Response: The landscape plan has been revised accordingly See Sheet L1.0.
- Provide additional screening for the parking lot along County NN. Response: The landscape plan has been revised accordingly – See Sheet L1.0.

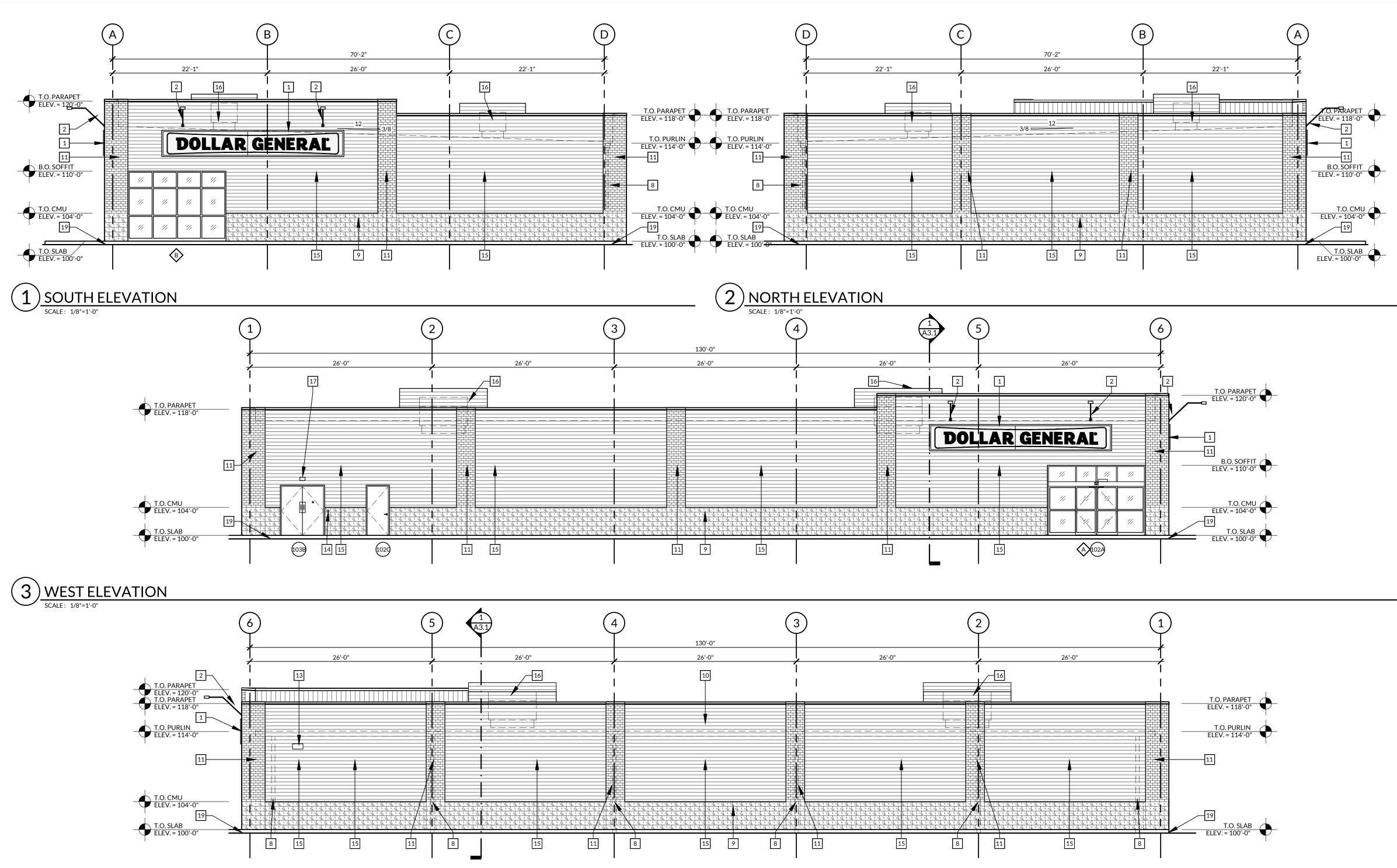
Photometrics

- 1. Provide cut sheets of the light poles and light pole fixtures. Response: Cut sheets have been provided with this submittal.
- 2. Provide "cut offs/shields" to limit light pollution. Response: Cut sheets have been provided with this submittal for the Town's review.
- 3. Dim/Turn off lights after hours of operation, for safety and light pollution. Response: A dimmer switch will be provided as part of the lighting plan.

We trust these responses and the description of changes above adequately address your comments. If you have any questions or require any additional information, please contact me at 630-487-5563.

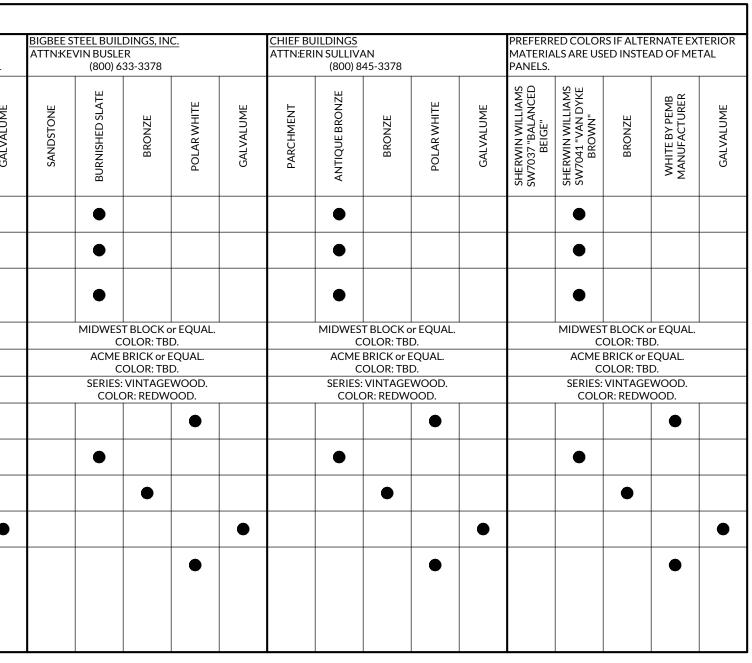
Sincerely,

Joseph Mayer Kimley-Horn and Associates, Inc. Phone: 630-487-5563 Email: Joe.mayer@kimley-horn.com



4 EAST ELEVATION

										EXT	ERIOR FIN	IISH SCHE	DULE		
PRE-ENGINEERED METAL BUILDING VENDOR.	VP BUILD ATTN:DA	VID ENGL	_ISH 568-4537				ILDING SY DNEY BUI (800) 8					BUILDING)B BARRY (315) 6	<u>SYSTEMS</u> 522-4440 ·	(260) 837-	-7891
EXTERIOR FINISHES ARE TO MATCH or BE EQUAL TO VP METAL BUILDING SYSTEM'S FINISH SELECTION.	COOL EGYPTIAN WHITE	COOL DARK BRONZE	BRONZE	COOL COTTON WHITE	GALVALUME	LIGHTSTONE	MEDIUM BRONZE, KYNAR 500	BRONZE	POLAR WHITE	GALVALUME	LIGHTSTONE	MEDIUM BRONZE, KYNAR 500	BRONZE	POLAR WHITE	GALVALUME
GUTTERS.		•					•					•			
DOWNSPOUTS.		•					•					•			-
SIDE & REAR METAL WALL PANELS & TRIM, RECEIVING & EMERGENCY EXIT DOORS. (EXTERIOR OF DOORS TO BE PAINTED. REFER TO DOOR SCHEDULE.)		•					•					•			
4" SPLIT-FACE CMU	MIDWEST BLOCK or EQUAL. COLOR: TBD.		MIDWEST BLOCK or EQUAL. COLOR: TBD.			MIDWEST BLOCK or EQUAL. COLOR: TBD.									
4" SMOOTH or VELOUR ECONOMY SIZE BRICK.	ACME BRICK or EQUAL. COLOR: TBD.				ACME BRICK or EQUAL. COLOR: TBD.				ACME BRICK or EQUAL. COLOR: TBD.						
NICHIHA FIBER CEMENT PANEL.	SERIES: VINTAGEWOOD. COLOR: REDWOOD.			SERIES: VINTAGEWOOD. COLOR: REDWOOD.				SERIES: VINTAGEWOOD. COLOR: REDWOOD.							
FLAT METAL SOFFIT AT STOREFRONT VESTIBULE AREA.				•					•					•	
BUILDING FASCIA WALL, PARAPET o/ ENTRANCE, & CANOPY.		•					•					•			
STOREFRONT SYSTEM.			•					•					•		
STANDING SEAM METAL ROOF PANELS.					•					•					•
LINER PANELS (INTERIOR SALES & RECEIVING FLOOR)				•					•					•	



ELEVATION KEYNOTES

- 1
 SIGN FURNISHED & INSTALLED BY DOLLAR GENERAL CORPORATION. SIGN SHALL BE LIGHTED FROM ABOVE. CONTRACTOR IS TO PROVIDE ADEQUATE BLOCKING AS REQUIRED BY SIGN MANUFACTURER TO SUPPORT SIGN WEIGHT OF UP TO 1,400 LBS. COORDINATE THE PROPER SIGNAGE TO BE USED w/ DOLLAR GENERAL.

 2
 EXTERIOR LIGHTING. REFER TO ELECTRICAL DRAWINGS TO VERIFY EXACT QUANTITY,
- LOCATION, MOUNTING HEIGHT & OTHER SPECIFICATIONS.
- 3 NOT USED.
- 4 NOT USED. 5 NOT USED.
- 6 NOT USED.
- NOT USED.
- 8
 GUTTER & DOWNSPOUT. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR.
- 4" SPLIT-FACE CMU. REFER TO EXTERIOR FINISH SCHEDULE FOR TYPE & COLOR.
- Image: Standing seam metal roof. Refer to exterior finish schedule for color.
- 4" SMOOTH or VELOUR ECONOMY SIZE BRICK. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR.
- 12 NOT USED.
- UENT FOR BATHROOM EXHAUST. REFER TO MECHANICAL DRAWINGS FOR EXACT
- LOCATION & ADDITIONAL INFORMATION.
-] NICHIHA VINTAGEWOOD ARCHITECTURAL PANELS. REFER TO EXTERIOR FINISH
- SCHEDULE FOR COLOR.
 HVAC UNITS MOUNTED ON ROOF. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION & LOCATIONS. UNITS TO BE SCREENED FROM VIEW. SCREEN TO BE CITYSCAPES, INC. "ENVISOR SCREENING SYSTEM" or APPROVED EQUAL.
- 17
 OUTSIDE AIR TEMP. SENSOR MOUNTED OVER RECEIVING DOORS @ 8'-0" A.F.F.

 18
 MINIMUM EAVE HEIGHT IS 14'-0" A.F.F.
- FINISHED GRADE AT EXTERIOR WALLS SHALL BE A MINIMUM OF 6" BELOW FINISHED FLOOR AT ALL NON-PAVED AREAS.
 NOT USED.



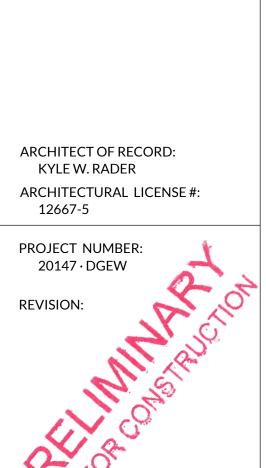
NORTHEAST CORNER OF HIGHWAY NN & GODFREY LANE/LEEDS DRIVE EAGLE, WAUKESHA COUNTY, WISCONSIN 53119



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NEC HIGHWAY NN & GODFREY LANE TOWN OF EAGLE, WISCONSIN 53119

UTILITY AND GOVERNING AGENCY CONTACTS

PLANNING & ZONING DEPARTMENT TOWN OF EAGLE 820 E. MAIN STREET

EAGLE, WI 531199 TEL: (920) 728–2814 CONTACT: TIM SCHWECKE

ENGINEERING DEPARTMENT TOWN OF EAGLE 820 E. MAIN STREET EAGLE, WI 531199 TEL: (262) 402-5040 CONTACT: TIM LYNCH

STORM SEWER SERVICE TOWN OF EAGLE 820 E. MAIN STREET EAGLE, WI 531199 TEL: (262) 594-5800

WATER/SANITARY SERVICE PRIVATE WELL & SEPTIC ROADWAY AUTHORITY WAUKESHA COUNTY 515 W MORELAND BLVD, AC220 WAUKESHA, WI 53188 TEL: (262) 548-7740

POWER COMPANY WE ENERGIES S13 W33800 US-18 DELAFIELD, WI 53018 TEL: (262) 968-2575

NATURAL GAS COMPANY WE ENERGIES

S13 W33800 US-18 DELAFIELD, WI 53018 TEL: (262) 968-2575

<u>TELEPHONE</u> AT&T TEL: (853) 293-7676

PROJECT TEAM

DEVELOPER THE OVERLAND GROUP 1903 EAST BATTLEFIELD ST. SPRINGFIELD, MO 65804 TEL: (417) 293-3332 CONTACT: JACOB W. STAUFFER

ARCHITECT TORGERSON DESIGN PARTNERS 116 N. 2ND AVE. OZARK, MO 65721 TEL: (417) 581-8889 CONTACT: MIKE SEBBEN

SURVEYOR CHAPUT LAND SURVEYS 234 W. FLORIDA STREET MILWAUKEE, WI 53204 TEL: (414) 224-8068 CONTACT: DONALD CHAPUT <u>CIVIL ENGINEER</u> KIMLEY-HORN AND ASSOCIATES, INC. 4201 WINFIELD ROAD, SUITE 600 WARRENVILLE, IL 60555 TEL: (630) 487-5550 EMAIL: JOE.MAYER@KIMLEY-HORN.COM CONTACT: JOE MAYER, EMAIL: JUSTIN.MULLER@KIMLEY-HORN.COM CONTACT: JUSTIN MULLER, P.E.

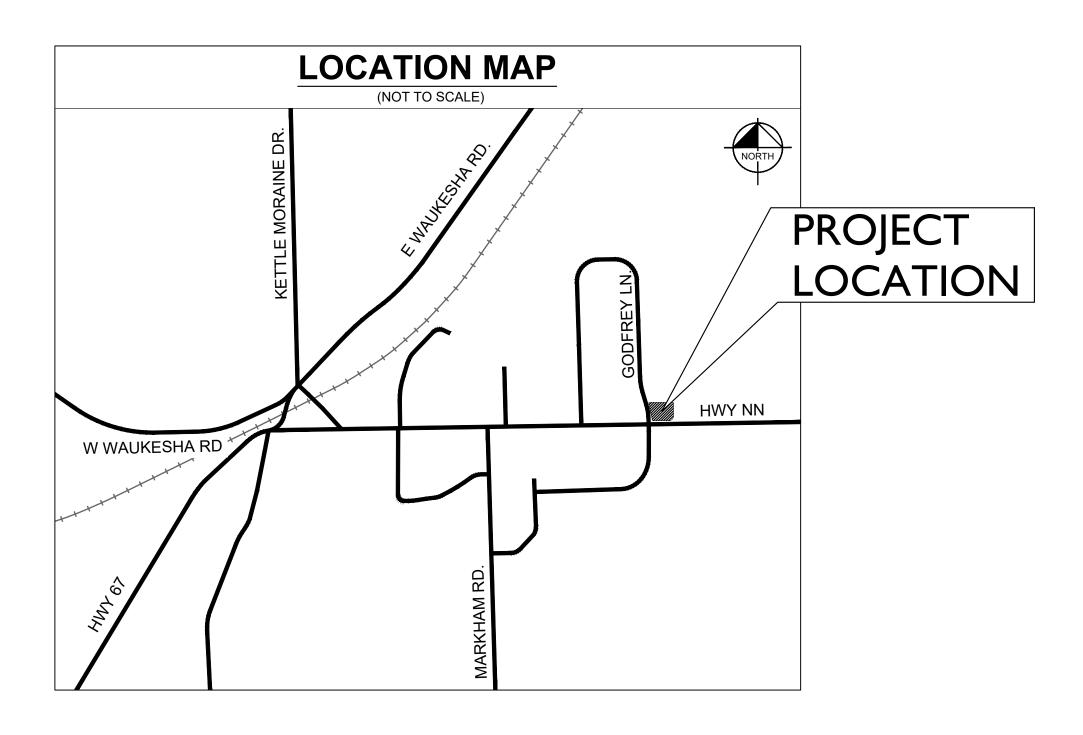
LANDSCAPE ARCHITECT KIMLEY-HORN AND ASSOCIATES, INC. 4201 WINFIELD ROAD, SUITE 600 WARRENVILLE, IL 60555 TEL: (630) 487-5550 EMAIL: DANIEL.GROVE@KIMLEY-HORN.COM CONTACT: DANIEL GROVE

<u>GEOTECH</u> TERRACON CONSULTANTS, INC. 9856 SOUTH 57TH STREET FRANKLIN, WI 53132 TEL: (414) 423-0255 PAUL J. KOSZAREK, P.E. CONTACT: DANIEL GROVE

LEGAL DESCRIPTION

PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 8689, IN THE SOTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 23, TOWNSHIP 5 NORTH, RANGE 17 EAST, IN THE TOWN OF EAGLE, WAUKESHA COUNTY, WISCONSIN, RECORDED DECEMBER 17, 1998 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY, IN VOLUME 77 OF CERTIFIED SURVEY MAPS ON PAGES 47, 48 AND 49, AS DOCUMENT NO. 239997, TOGETHER WITH ALL MINERAL RIGHTS CLAIMED THEREIN UNDER STATMENT OF MINERAL CLAIM RECORDED MAY 24, 2002 AS DOCUMENT NO. 2804813.

FINAL ENGINEERING PLANS DOLLAR GENERAL =C HIGHWAY NN & GODEREY I ANE



	BENCHMARKS
	<u>BENCHMARKS:</u> Cations shown on survey)
REFE OF	RTING BENCHMARK: REFERENCE MARK AND ERENCE BENCHMARK FOUND CHISELED CROSS IN TOP THE HYDRANT NOZZLE. /ATION=927.61 (NGVD 29)
	BENCHMARK: NW FLANGE BOLT ON HYDRANT. /ATION=920.34 (NGVD 29)
PAD	BENCHMARK: SET CROSS ON NE COR. OF CONC. /ATION=924.76 (NGVD 29)



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	Sheet List Table
Sheet Number	Sheet Title
C0.0	COVER SHEET
V0.0	ALTA SURVEY
C1.0	GENERAL NOTES
C2.0	DEMOLITION PLAN
C3.0	SITE PLAN
C4.0	EROSION CONTROL PLAN
C4.1	EROSION CONTROL NOTES & DETAILS
C5.0	GRADING PLAN
C6.0	UTILITY PLAN
C7.0	CONSTRUCTION DETAILS
C7.1	CONSTRUCTION DETAILS
L1.0	LANDSCAPE PLAN
L2.0	LANDSCAPE NOTES AND DETAILS

PROFESSIONAL ENGINEER'S CERTIFICATION

I, JUSTIN MULLER, A LICENSED PROFESSIONAL ENGINEER OF WISCONSIN, HEREBY CERTIFY THAT THIS SUBMISSION, PERTAINING ONLY TO THE "C" SERIES CIVIL SHEETS LISTED ABOVE BUT EXCLUDING DETAILS PREPARED BY OTHERS, WAS PREPARED ON BEHALF OF THE OVERLAND GROUP BY KIMLEY—HORN AND ASSOCIATES, INC. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS <u>14TH</u> DAY OF <u>AUGUST</u>, A.D., 2020.

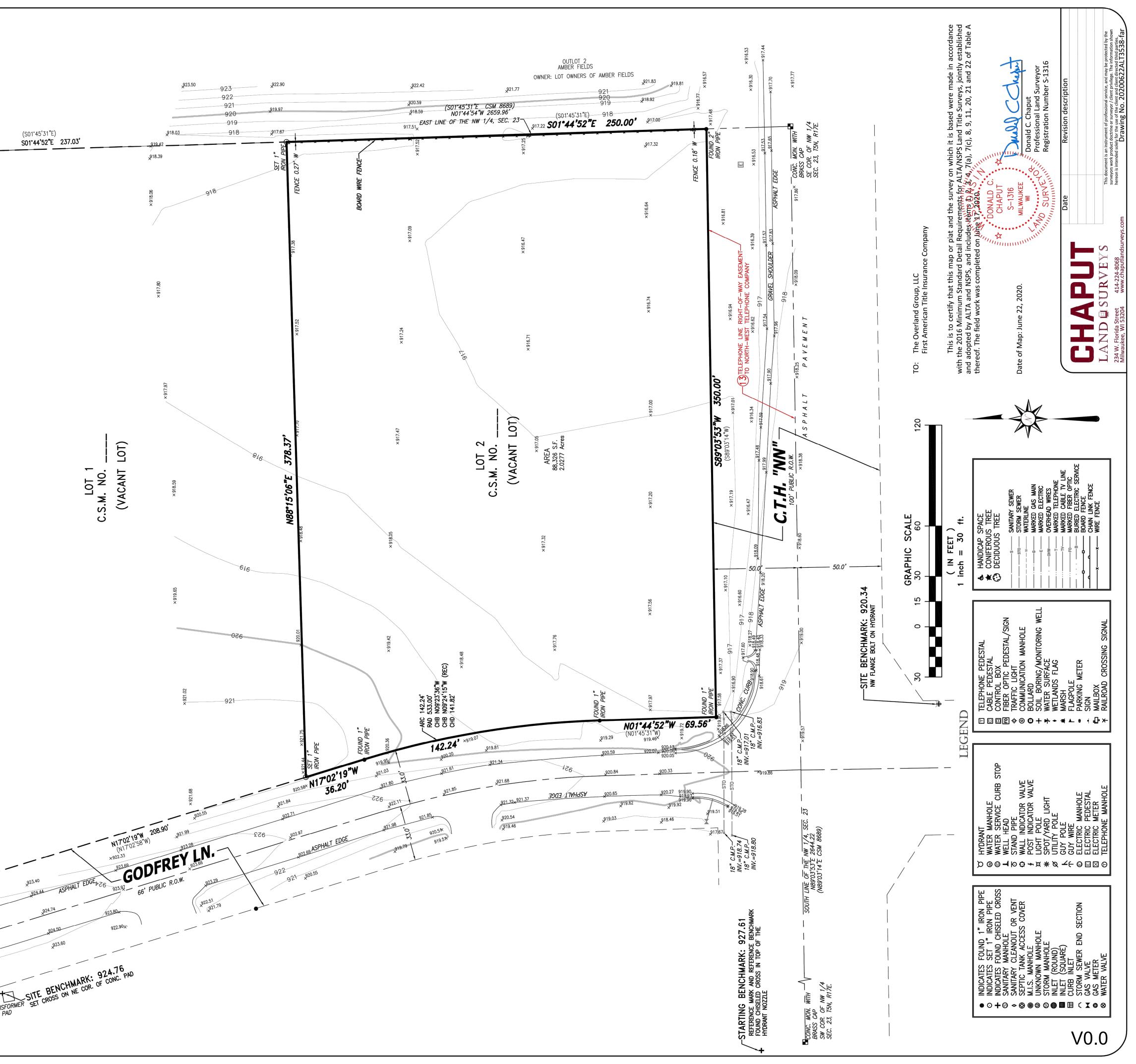
Justo Mulle

WISCONSIN LICENSED PROFESSIONAL ENGINEER E-40596 MY LICENSE EXPIRES ON JULY 31, 2020



			1 TOWN COMMENTS 08/14/20 JPM	No. REVISIONS DATE BY
AS NOTED	DESIGNED BY: JPM KIMIEY >>> HOLT	© 2020 KIMLEY-HORN AND ASSOCIATES, INC. A201 WINFIELD ROAD, SUITE 600 WARRENVILLE, IL 60555 PHONE: 637-6550	CHECKED BY: JMM	
SCALE:				
		COVER SHEEL		
	DOLLAR GENERAL	NEC HIGHWAY NN & GODFREY LN.	TOWN OF EAGLE, WI 53119	
КН	07/2 A PR 1687 HEET	AL ISSU 9/2020 0JECT 708007 NUMB	0 NO.	

		ΥΝΣ 🖥 ΣΩΚΛΕΛ2	TUGAHO			
LAND TITLE SURVEY	<u>CLIENT</u> Kimley Horn	SITE ADDRESS Vacant Land, Godfrey Lane, Town of Eagle, Waukesha County, Wisconsin. <u>Vacant Land, Godfrey Lane</u> , Town of Eagle, Waukesha County, Wisconsin, recorded December Part of Lot 1 of Certified Survey Map No. 8689, in the Southeast 1/4 of the Northwest 1/4 of Section 23, Township 5 North, Range 17 East, in the Town of Eagle, Waukesha County, Wisconsin, recorded December 17, 1998 in the office of the Register of Deeds for Waukesha County, in Volume 77 of Certified Survey Maps on pages 47, 48 and 49, as Document No. 2399997, together with all mineral rights claimed therein under Statement of Mineral Claim recorded May 24, 2002 as Document No. 2804813.	BASIS OF BEARINGS Bearings are referenced to grid North of the Wisconsin State Plane Coordinate System (South Zone) NAD 27, in which the South line of the Northwest 1/4 of Section 23, Township 5 North, Range 17 East, bears N89°03'53'E. VERTICAL DATUM Vertical datum is based on National Geodetic Vertical Datum of 1929. TABLE "A" ITEMS 11. Utility lines are shown from visible surface evidence, municipal plans and from plans and markings provided by Diggers Hotline, the One-call Utility Marking System (Wisconsin Statute 182.0175), Tiote Munch 200001200	P CONC. MON. WITH BRASS CAP NE COR. OF NW 1/4 SEC. 23, T5N, R17E.	FOUND 1"	(S01'4 S01'4
	VICINITY MAP				(N86'14'29"E) N88'15'06"E 441.70'	
TITLE COMMITMENTThis survey was prepared based on First American Title Insurance Company Commitment No. DM0004535, effective date of March 27, 2020 which lists the following easements and/or restrictions from schedule B-II:1, 2, 3, 5, 9 & 10 visible evidence shown, if any.	4, 6, 7, 8, 11 & 14 not survey related. 12. Terms and provisions of Statement of Mineral Claim dated 05/23/2002 and recorded 05/24/2002 as Document No. 2804813. Affects property by location, general in nature.	 Terms and provisions of Telephone Line Right-of-Way Easement to North-West Telephone Company, dated 01/31/1973 and recorded 04/05/1973 in Reel 34, Image 1185 as Document No. 845877. Does not affect property by location, not shown. PARKING SPACES There are no parking spaces marked on this site. FLOOD NOTE According to the flood insurance rate map of the County of Waukehsa, Community Panel No. 551330006 effective date of Sentember 26, 2008 this site falls in Zone X (Areas determined to be contacted to be c	outside the 0.2% annual chance floodplain). <u>MUNICIPAL</u> ZONING The zoning information noted below is taken from the municipal code ordinance. It does not reflect all zoning restrictions that may apply. It is not intended to be used in lieu of a comprehensive zoning report as stated in ALTA Table A item 6(a) nor to be relied on for site development purposes. Site is zoned: B-4 (Mixed Business) Minimum Setback: 50 feet Minimum Offset: 20 feet Minimum Offset: 20 feet Maximum Principal building height: 20 feet	LAND AREA The Land Area of Proposed Lot 1 is 97,349 square feet or 2.2348 acres. The Land Area of Proposed Lot 2 is 88,326 square feet or 2.0277 acres. - - -	× ×925.75 ×925.75 ×925.02 ×925.02 ×925.02 ×925.02 ×925.02 ×925.02 ×925.02	2



1	GENERAL NOTES EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY: CHAPUT LAND SURVEYS 234 W. FLORIDA STREET MILWAUKEE, WI 53204 TEL: (414) 224-8068	30. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHENEVER POSSHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM, I DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION EROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, REPAIRED BY THE CONTRACTOR FLUSHING OR USING THE HYDRANT AT THE CONTRACTOR'S EXPENSE. LEAKS IN THE WATER DISTRIBUTION SYSTEM SHALL BE THE RESPONSIBILITY OF T MAIN CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. 31. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE SEWERS AND WATERMAIN
2	COPIES OF THE SURVEY ARE AVAILABLE FROM THE ENGINEER. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS. . COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING	 TWO (2) FEET HORIZONTAL OF PROPOSED OR EXISTING PAVEMENT. 32. IF SOFT, SPONGY, OR OTHER UNSUITABLE SOILS WITH UNCONFINED COMPRESSIVE STRENGTH 0.5 TSF ARE ENCOUNTERED AT THE BOTTOM OF THE TRENCH, ALL SUCH MATERIAL SHALL AND REPLACED WITH WELL-COMPACTED, CRUSHED LIMESTONE BEDDING MATERIAL. IF ROCK
	OR SPECIAL CONSTRUCTION METHODS DEEMED NECESSARY BY THE CONTRACTOR IN ORDER TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THE CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN AUTHORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL SOILS INVESTIGATION.	 ENCOUNTERED, IT SHALL BE REMOVED TO AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF TO ALLOW PROPER THICKNESS OF BEDDING. ANY UNDERCUTS OF TWO (2) FEET OR LESS S CONSIDERED INCIDENTAL TO THE CONTRACT. DEPTHS GREATER THAN TWO (2) FEET SHALL TO THE ENGINEER FOR APPROVAL PRIOR TO PROCEEDING. 33. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE P
	 THE CONTRACTOR SHALL PHOTOGRAPH THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL PROPOSED WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF: 	APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONT THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE ITEM. PLANS DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOF IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER.
	 A. "ROADWAY STANDARD SPECIFICATIONS, WISCONSIN DEPARTMENT OF TRANSPORTATION," AS PREPARED BY WISDOT, CURRENT EDITION AND ITS SUPPLEMENTS. B. "10 STATE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES", AS PUBLISHED BY HEALTH RESEARCH INC., LATEST EDITION. 	34. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLA INLET PROTECTION EROSION CONTROL AT LOCATIONS INDICATED BY THE ENGINEER. THE PU INLET PROTECTION WILL BE TO MINIMIZE THE AMOUNT OF SILTATION THAT NORMALLY WOUL STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.
	 C. REGULATIONS, STANDARDS AND GENERAL REQUIREMENTS SET FORTH BY THE TOWN OF EAGLE, UNLESS OTHERWISE NOTED ON THE PLANS. D. THE NATIONAL ELECTRIC CODE. 	 35. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPER/ DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. 36. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH WISCONSIN DEPA NATURAL RESOURCES REGULATIONS AND WISDOT STANDARDS FOR SOIL EROSION AND SEDIN CONTROL AND SHALL BE MAINTAINED BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL A
5	 E. ALL APPLICABLE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE. STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE 	 GROWTH OF GRASS, ACCEPTABLE TO THE ENGINEER, HAS DEVELOPED. 37. THE CONTRACTOR SHALL CONFORM TO ALL EROSION CONTROL REQUIREMENTS AS SET FOR WISCONSIN DEPARTMENT OF NATURAL RESOURCES THROUGH THE NPDES PHASE II PERMIT F REQUIREMENTS AND GOVERNING MUNICIPALITY. THE CONTRACTOR SHALL INSTALL AND MAIL
6	CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THE CONTRACTOR'S WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED A PART OF THE CONTRACTOR'S CONTRACT. . IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR CONSTRUCTION OF THE PROJECT, AS SHOWN ON THE PLANS, ARE INCLUDED IN THE CONTRACT. ANY ITEM NOT SPECIFICALLY INCLUDED IN THE CONTRACT, BUT SHOWN ON THE PLANS, SHALL BE	EROSION CONTROL MEASURES AS INDICATED ON THE EROSION CONTROL DRAWINGS AND SP PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. KIMLEY-HORN AND ASSOCIATES, INC. RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR S WHICH CONTRIBUTE TO DEFICIENCIES IN THE SWPPP OR ANY VIOLATIONS RESULTING FROM EROSION CONTROL PROTECTION AND/OR DOCUMENTATION.
7	CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A DISCREPANCY WITH THE PLANS AND QUANTITIES. . THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF THERE ARE ANY	 38. THE PAVEMENT SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES. IT MAY BE NECL TO KEEP A SWEEPER ON-SITE AT ALL TIMES. 39. ALL DISTURBED AREAS OF THE RIGHT-OF-WAY SHALL BE FULLY RESTORED TO PRE-CONS' CONDITIONS WITH A MINIMUM OF SIX (6) INCHES OF TOPSOIL, SEEDING, AND MULCH AS PEIL
	DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM TO THE SURVEYOR OR ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR	STANDARDS. 40. ALL PROPOSED GRADES SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS NO OTHERWISE.
8	DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THE CONTRACTOR'S OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE. . THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL	 41. ALL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. IF REQUE THE TOWN OF EAGLE OR ENGINEER, COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO ENGINEER FOR REVIEW AND APPROVAL. 42. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRE
đ	. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS KIMLEY-HORN AND ASSOCIATES, INC, THE TOWN OF EAGLE, THEIR EMPLOYEES AND AGENTS AND THE OWNER FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN.	 43. WHEN REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN RECORD DRAWINGS C/ PREPARED. RECORD DRAWINGS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL IMPROVEMENTS, INCLUDING VERIFICATION OF ALL CONCRETE PADS, INVERT, RIM, AND SPOT ELEVATIONS, AND INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER.
9	. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.	44. BEFORE ACCEPTANCE, ALL WORK SHALL BE INSPECTED BY THE TOWN OF EAGLE, AS NECES
	 CONSTRUCTION MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY, AS DIRECTED BY THE OWNER. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR 	EARTHWORK NOTES 1. GENERAL 1.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER
	SHALL BE RESPONSIBLE FOR DETERMINING THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.	 1.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOL AND GROUNDWATER AT THE SITE. 1.2. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONDETERMINE ALL MATERIAL QUANTITIES AND BE KNOWLEDGEABLE OF ALL SITE CONDITIONS
	 OWNER SHALL OBTAIN EASEMENTS AND APPROVAL OF PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND EASEMENTS. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. 	 1.3. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLAI FINISHED GRADE AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED 1.4. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREV
1	ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE SURVEYOR AT THE CONTRACTOR'S EXPENSE. 4. NOTIFICATION OF COMMENCING CONSTRUCTION:	STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROT AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
	 14.A. THE CONTRACTOR SHALL NOTIFY AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY, AS NECESSARY, ALL TESTING AGENCIES, THE TOWN OF EAGLE, AND THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. 14.B. FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN THE 	 THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SOIL EROSION A SEDIMENTATION CONTROL MEASURES. THE INITIAL ESTABLISHMENT OF EROSION CONTROL AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC., TO PROTECT ADJACENT PROPE WETLANDS, ETC., SHALL OCCUR BEFORE GRADING BEGINS. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES. THE CONTRACTOR SHALL ERECT A CO
	TESTING COMPANIES TO BE UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND THE OPERATION TO BE TESTED UNTIL THE TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.	FINE FROM TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A CONFERENCE AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACE CENTERED AROUND THE TREE, THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTITY (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.
	 5. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL EMERGENCY TRAFFIC, AS DIRECTED BY THE TOWN OF EAGLE. 6. ANY EXISTING SIGNS, LIGHT STANDARDS, AND UTILITY POLES THAT INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED ON THE PLANS FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE 	 1.7. EXISTING SUBSURFACE CONDITIONS WERE OBTAINED FROM A GEOTECHNICAL PREPARED B' TERRACON CONSULTANTS, INC. 9856 S. 57TH STREET FRANKLIN, WISCONSIN 53132 TEL: (414) 426-0255 1. TOPSOIL EXCAVATION INCLUDES:
1	DELIVERED TO THE RESPECTIVE OWNERS. 7. ALL TREES TO BE SAVED SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION BY THE LANDSCAPE ARCHITECT AND SHALL BE PROTECTED PER WISDOT SECTION 202. THE RIGHT-OF-WAY LINE AND LIMITS OF THE CONTRACTOR'S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL TREES NOTED TO REMAIN SHALL BE PROTECTED FROM DAMAGE TO TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.	 1.1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THO THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS. 1.2. PLACEMENT OF EXCAVATED MATERIAL IN OWNER-DESIGNATED AREAS FOR FUTURE USE W TO BE LANDSCAPED AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PRO NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.
	 B. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT, FORESTER, OR ARBORIST AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THE CONTRACTOR'S WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT. B. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED 	 1.3. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE. 1.4. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING SIX (6) INCHES OF TOPSOI OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE
2	REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL. 0. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT, AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST.	 1.5. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS. 2. EARTH EXCAVATION INCLUDES: 2.1. EXCAVATION OF SUBSURFACE MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE E
2	1. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC., SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH DISPOSAL.	WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION. 2.2. PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCT ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 F
2	2. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEANUP, AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.	 MATERIALS SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHE THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQU COMPACTION. 2.3. STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT STRUCTURAL FILL, WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TO OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WI
2	3. NO UNDERGROUND WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE TOWN OF EAGLE. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE TOWN OF EAGLE PRIOR TO INSTALLING PAVEMENT BASE, BINDER, AND SURFACE, AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET, AS NECESSARY.	CONCURRENCE OF THE OWNER. 2.4. COMPACTION OF SUITABLE MATERIALS SHALL BE TO AT LEAST 93% OF THE MODIFIED PR DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE A OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS.
2	4. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND PIPE SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THE CONTRACTOR'S WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE MERGED INTO THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR STORM SEWERS, WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL, AND	3. UNSUITABLE MATERIAL: UNSUITABLE MATERIALS SHALL BE CONSIDERED MATERIAL THAT IS FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BEI TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SA AND TO WHAT EXTENT SHALL BE MADE BY THE ENGINEER WITH THE CONCURRENCE OF THI
2	DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND STORM SEWERS CONSTRUCTED AS PART OF THE CONTRACTOR'S PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR STORM SEWERS CONSTRUCTED AS PART OF THE CONTRACTOR'S PROJECT. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES	 4. MISCELLANEOUS. THE CONTRACTOR SHALL: 4.1. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOI COMPLETION OF THE UNDERGROUND IMPROVEMENTS.
2	IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL CALL DIGGERS HOTLINE LOCATING SERVICES (1-800-242-8511) AND THE TOWN OF EAGLE FOR UTILITY LOCATIONS.	 4.2. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS. 4.3. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT.
2	6. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, ELECTRIC, GAS AND IRRIGATION SERVICES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT CROSSINGS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO GENERAL CONTRACTOR AGREEMENT WITH THE OWNER. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE CENERAL CONTRACTOR AT NO. ADDITIONAL COST TO THE OWNER	PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION. 4.4. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEM BASE COURSE MATERIAL.
2	GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. 7. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AT ALL PROPOSED UTILITY CONNECTION LOCATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.	 TESTING AND FINAL ACCEPTANCE THE CONTRACTOR SHALL PROVIDE AS A MINIMUM A FULLY LOADED SIX-WHEEL TANDEM FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURE AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY THE ENGINEER AND THE OWNER SPECIFICATION.)
2	8. ANY FIELD TILES ENCOUNTERED SHALL BE INSPECTED BY THE ENGINEER. THE DRAIN TILE SHALL BE CONNECTED TO THE STORM SEWER SYSTEM AND A RECORD KEPT BY THE CONTRACTOR OF THE LOCATIONS AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.	SPECIFICATION.) 5.2. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMC REPLACED WITH SUITABLE MATERIAL OR OTHERWISE CORRECTED AND APPROVED BY THE
2	9. ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWERS, VALVE VAULT COVERS, FIRE HYDRANTS, AND B-BOXES ARE TO BE ADJUSTED TO MEET FINISHED GRADE. THE CONTRACTOR'S ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR, AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE TOWN OF EAGLE UPON FINAL INSPECTION OF THE PROJECT.	

I J I K I L I M	
ISHED DIRECTLY ONTO THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES	PAVING NOTES
HE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM, IF AVAILABLE, ADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR HING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE R FLUSHING OR USING THE HYDRANT AT THE CONTRACTOR'S OWN R DISTRIBUTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE WATER BE REPAIRED AT THE CONTRACTOR'S EXPENSE.	 GENERAL 1.1. PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION, AND COMPACTION; PLA SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FINISHING, AND CURING CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP RELATED WORK.
QUIRED TO THE FULL DEPTH ABOVE SEWERS AND WATERMAIN WITHIN PROPOSED OR EXISTING PAVEMENT.	1.2. COMPACTION REQUIREMENTS [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)]: SUBGRADE SUBBASE = 95%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = 95% OF MA DENSITY, PER WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) HIGHWAY STANDARDS
UNSUITABLE SOILS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN T THE BOTTOM OF THE TRENCH, ALL SUCH MATERIAL SHALL BE REMOVED MPACTED, CRUSHED LIMESTONE BEDDING MATERIAL. IF ROCK IS REMOVED TO AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE & OF BEDDING. ANY UNDERCUTS OF TWO (2) FEET OR LESS SHALL BE HE CONTRACT. DEPTHS GREATER THAN TWO (2) FEET SHALL BE SUBMITTED VAL PRIOR TO PROCEEDING.	 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING DEVICES, AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. A DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD), LATEST EDITION, AND IN ACCORDANCE WITH THE TOWN OF EAGLE CODE. 2. SUBGRADE PREPARATION
ALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT. AINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR, AND INCIDENTAL TO THE UNIT PRICE BID FOR THE ITEM. PLANS FOR THE SITE FALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR TO IAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING OVED IN WRITING BY THE OWNER.	2.1. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOO MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL CONFIRM THAT THE SUBGRADE HAS PROPERLY PREPARED AND THAT THE FINISHED TOP SUBGRADE ELEVATION HAS BEEN GRAD TOLERANCES ALLOWED IN THESE SPECIFICATIONS, UNLESS THE CONTRACTOR ADVISES THE WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION. IT IS UNDERSTOOD TH CONTRACTOR HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE.
STEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE PROPER ONTROL AT LOCATIONS INDICATED BY THE ENGINEER. THE PURPOSE OF THE MINIMIZE THE AMOUNT OF SILTATION THAT NORMALLY WOULD ENTER THE ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.	2.2. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF-ROLLE INSPECTED FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. IF UNSUITABLE SU ENCOUNTERED, IT SHALL BE CORRECTED. THIS MAY INCLUDE ONE OR MORE OF THE FOLLO METHODS:
KING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL	2.2.1. SCARIFY, DISC, AND AERATE.
SHALL BE INSTALLED IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF TIONS AND WISDOT STANDARDS FOR SOIL EROSION AND SEDIMENTATION ITAINED BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL A SUITABLE 3LE TO THE ENGINEER, HAS DEVELOPED.	2.2.2. REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL. 2.2.3. REMOVE AND REPLACE WITH GRANULAR MATERIAL. 2.2.4. USE OF GEOTEXTILE FABRIC.
FORM TO ALL EROSION CONTROL REQUIREMENTS AS SET FORTH BY THE ATURAL RESOURCES THROUGH THE NPDES PHASE II PERMIT PROGRAM	MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE ONE-QUARTER (1/4) INCH TO (1/2) INCH IF NO DEFLECTION OCCURS OVER THE MAJORITY OF THE AREA.
G MUNICIPALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL AS INDICATED ON THE EROSION CONTROL DRAWINGS AND SPECIFICATIONS AND ASSOCIATES, INC. KIMLEY-HORN AND ASSOCIATES, INC. IS NOT OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR SUPPLIERS, ENCIES IN THE SWPPP OR ANY VIOLATIONS RESULTING FROM INADEQUATE N AND/OR DOCUMENTATION.	 2.3. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE B. MATERIAL, THE PAVEMENT AREA SHALL BE FINE-GRADED TO WITHIN 0.04 FEET (1/2 INCH) SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE CURB, SO A ENSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTI MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.
T FREE OF MUD AND DEBRIS AT ALL TIMES. IT MAY BE NECESSARY	2.4. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE SHALL BE APPROVED BY TH ENGINEER.
E RIGHT-OF-WAY SHALL BE FULLY RESTORED TO PRE-CONSTRUCTION OF SIX (6) INCHES OF TOPSOIL, SEEDING, AND MULCH AS PER WISDOT	3. CONCRETE WORK
N ON PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS NOTED	3.1. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AIR ENTRAINMENT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIM (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT F (14) DAYS AND A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) CONCRETE SHALL BE BROOM-FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
ESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. IF REQUESTED BY NEER, COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE	3.2. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOW
PPROVAL. JRVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. TWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.	PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AN PAVEMENT CROSS SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREG COURSE THICKNESS BENEATH THE CURB AND GUTTER. PRE-MOLDED FIBER EXPANSION JOI TWO 3/4-INCH BY 18-INCH EPOXY-COATED STEEL DOWEL BARS, SHALL BE GREASED AND METAL EXPANSION TUBES
CTOR SHALL NOTIFY THE OWNER WHEN RECORD DRAWINGS CAN BE SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL RIFICATION OF ALL CONCRETE PADS, INVERT, RIM, AND SPOT GRADE E ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER.	3.3. CURBS SHALL BE DEPRESSED AND MEET THE SLOPE REQUIREMENTS OF THE FEDERAL ADA FOR ACCESSIBLE DESIGN AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINES AND LOCATIONS, AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY.
RK SHALL BE INSPECTED BY THE TOWN OF EAGLE, AS NECESSARY.	3.4. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACE THE BASE COURSE.
OTES	3.5. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVID JOINTS AT 5-FOOT INTERVALS AND 1/2-INCH PRE-MOLDED FIBER EXPANSION JOINTS AT INTERVALS AND ADJACENT TO CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, AND OTHER S
SPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS	3.6. CONCRETE CURING AND PROTECTION SHALL BE PER WISDOT STANDARDS. TWO (2) COATS (APPROVED CURING AGENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.
PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN	3.7. THE COST OF AGGREGATE BASE OR SUBBASE UNDER CONCRETE WORK SHALL BE INCLUDED COST OF THE RESPECTIVE CONCRETE ITEM.
THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UANTITIES AND BE KNOWLEDGEABLE OF ALL SITE CONDITIONS.	 FLEXIBLE PAVEMENT THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, AND DRIVE AISLES S
E THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR. NINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT	DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVER CONSIST OF AGGREGATE BASE COURSE, TYPE B, BITUMINOUS CONCRETE BINDER COURSE, A BITUMINOUS CONCRETE SURFACE COURSE, OF THE THICKNESS AND MATERIALS SPECIFIED C PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED T
G INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE CATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR ATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED DISION, SEDIMENTATION, AND TRAFFIC.	4.2. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER C LAID. THE AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO (PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHAL APPROVED.
RESPONSIBLE FOR IMPLEMENTATION OF THE SOIL EROSION AND ASURES. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES T AND FILTER FENCING, ETC., TO PROTECT ADJACENT PROPERTY, CUR BEFORE GRADING BEGINS.	4.3. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED TACK-COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE, OR CURB REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND STAFF NECESSARY, INCLUDING THE SURFACE COURSE.
OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A CONSTRUCTION DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE I.E., THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE INDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING AREA SHALL NOT BE DISTURBED.	POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATI SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSI OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS PER WISDOT STA 4.4. SEAMS IN BAM, BINDER, AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6 IN
DITIONS WERE OBTAINED FROM A GEOTECHNICAL PREPARED BY:	5. TESTING AND FINAL ACCEPTANCE.
'S, INC.	5.1. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETI PAVEMENT MATERIALS ESTABLISHED BY THE MATERIALS/TESTING ENGINEER.
3132 S:	5.2. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR REQUIRED BY THE TOWN OF EAGLE, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WI DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.
ID OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION TO STRIPPING TOPSOIL OR FILLING AREAS.	5.3. WHEN REQUIRED BY THE TOWN OF EAGLE, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR I METHOD REQUIRED BY WISDOT STANDARDS.
MATERIAL IN OWNER-DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS IOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE OL MEASURES FOR STOCKPILE.	5.4. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TI CHECKING REQUIREMENTS CITED ABOVE.
ESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE IWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE FILL AREAS OR DISPOSED OF OFF-SITE.	 ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE TOWN OF EAGLE CODE. WHEN ARISE BETWEEN MUNICIPAL CODE, GENERAL NOTES AND SPECIFICATIONS, THE MORE STRINGED TAKE PRECEDENCE.
NCLUDE HAULING AND SPREADING SIX (6) INCHES OF TOPSOIL DIRECTLY APED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER.	SIGNAGE AND PAVEMENT MARKING NOTES
REQUIRED IN NON-STRUCTURAL FILL AREAS.	SIGNAGE AND PAVEIVIENT WARKING NOTES ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNITRAFFIC CONTROL DEVICES (MUTCD) AND THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARDS

MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE THIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS RAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH SHALL "BALANCE" DURING THE FINE GRADING OPERATION. ERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET. THE FILL

- IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN ONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVÉ REQUIRED AY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING
- (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS ÌÖ́WEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OF UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE
- TERIALS SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY VEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE AT LEAST 95% ABLE MATERIALS SHALL BE CONSIDERED MATERIAL THAT IS NOT SUITABLE NT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL OSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL
- MADE BY THE ENGINEER WITH THE CONCURRENCE OF THE OWNER. RMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE
- TTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE
- VIDE AS A MINIMUM A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK EMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER S SHALL BE WITNESSED BY THE ENGINEER AND THE OWNER. (SEE PAVING JNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND TERIAL OR OTHERWISE CORRECTED AND APPROVED BY THE ENGINEER.

- LACEMENT OF FORMING. JP AND ALL
- E = 95%MUMIXAN RDS.
- G WARNING ALL SUCH IC CONTROL
- OT. PLUS OR S BEEN ADED WITHIN ENGINEER IN THAT THE
- LED AND SUBGRADE IS
- BASE
- H) OF FINAL NTITY OF BASE THE TESTING
- IT OF NOT IMUM OF SIX FOURTEEN 8) DAYS. ALL
- WN ON THE AND THE EGATE BASE OINTS. WITH ND FITTED WITH
- DA STANDARDS ND OTHER CEMENT OF
- VIDE SCORED STRUCTURES.
- S OF WISDOT DED IN THE
- SHALL BE AS
- VEMENTS SHALL ON THE THICKNESS.
- COURSE IS 0.5 GALLONS ALL BE WISDOT
- TD AND RB SHALL BE THE USE OF TION OF THE RSE AT A RATE TANDARDS. INCHES.
- ETE AND OR. WHEN
- WITH A CORE OF THE FULL ED IN ORDER
- R BY THE TESTING AND
- I CONFLICTS GENT SHALL
- TRAFFIC CONTROL DEVICES (MUTCD) AND THE WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARDS.
- 2. SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080-INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FACE. LEGEND SHALL BE IN ACCORDANCE WITH THE MUTCD.
- 3. POSTS: SIGN POSTS SHALL BE A HEAVY-DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT. SUCH AS A TYPE B METAL POST, AS PER THE WISDOT STANDARDS (OR 2-INCH PERFORATED STEEL 4. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH WISDOT STANDARDS.
- 5. PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE PUBLIC RIGHT-OF-WAY, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS, AND DIRECTIONAL ARROWS, SHALL BE REFLECTORIZED THERMOPLASTIC ON ASPHALT AND EPOXY ON CONCRETE OR AS APPROVED BY WISDOT.
- 6. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW-WEAR" APPLICATIONS, SHALL BE PAINT IN ACCORDANCE WITH WISDOT STANDARDS.
- 7. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND LOCAL CODE. STANDARD PARKING SPACES SHALL BE PAINTED WHITE OR YELLOW PER LOCAL CODE. 8. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55 DEGREES FAHRENHEIT AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50 DEGREES FAHRENHEIT AND RISING.
- SANITARY SEWER NOTES 1. SANITARY SEWER PIPE: ALL SANITARY SEWER PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS INDICATED ON THE UTILITY PLAN. UNLESS OTHERWISE NOTED ON THE PLANS, ALL SANITARY SEWER PIPE INDICATED ON THE UTILITY PLAN. UNLESS OTHERWISE NOTED ON THE PLANS, ALL SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE (PVC SDR-26), CONFORMING TO ASTM D3034 AND D2241 WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D3139 AND D3212. ANY CHANGES TO THE PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER, ENGINEER AND TOWN OF EAGLE PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL SANITARY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
- PIPE SIZE CODE PIPE MATERIAL POLYVINYL CHLORIDE PLASTIC PIPE SDR-26 (ASTM D3034 AND D2241) 4"-48' DIP DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151)
- 2. BAND-SEAL OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NO LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES.
- 3. ALL UNSUITABLE MATERIALS SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CRUSHED GRAVEL OR STONE, AS PER WISDOT STANDARDS. 4. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR
- A DISTANCE OF TWO (2) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL PER WISDOT STANDARDS AND THOROUGHLY MECHANICALLY COMPACTED IN 9-INCH THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED.
- 5. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND
- 6. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE TOWN OF EAGLE.

- 7. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES:
- A. IF NECESSARY PERMISSION SHALL BE OBTAINED FROM THE TOWN OF EA BEGINNING CONSTRUCTION.

- B. THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A M THE TOP OF THE SEWER AND 18 INCHES HORIZONTALLY AWAY FROM
- 9. ALL SANITARY MANHOLES (AND STORM MANHOLES IN COMBINED SEWER AR INSIDE DIAMETER OF 48 INCHES AND SHALL BE CAST IN PLACE OR PRE-WATERTIGHT BOOT, CONFORMING TO ASTM C-923, SHALL BE USED AT THE 10.ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER-TIGHT SLEEVES. THE
- BOTTOM OF THE MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS. 11. FRAMES AND LIDS: SEE DETAILS FOR ALL SANITARY SEWER MANHOLE FRAMES AND LIDS. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF-SEALING WITH AN "O" RING GASKET. THE LIDS SHALL HAVE THE WORD "SANITARY" EMBOSSED ON THE SURFACE. THE JOINTS BETWEEN THE FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE.
- 12.A MAXIMUM OF TWELVE (12) INCHES OF CONCRETE-ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.
- 13. CLEANING: ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE
- 14. TESTING: DEFLECTION. AIR, AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE IN ACCORDANCE WITH THE STANDARDS FOR SEWER AND WATER MAIN CONSTRUCTION IN WISCONSIN.
- 15. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH THE TOWN OF EAGLE CODE. 16. TELEVISING: IF REQUIRED BY THE TOWN OF EAGLE, ALL SANITARY SEWERS SHALL BE TELEVISED, AND A COPY OF THE TAPE AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE TOWN OF EAGLE BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS, AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEOTAPES.
- TO ONE-HALF 17. TEST RESULTS: IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OF CAUSES OF THE DEFECT AND REPAIR, OR REPLACE ALL MATERIALS AND WORKMANSHIP, AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.
 - 18.CERTIFICATION: CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING." ASTM STANDARDS D-2241, AS APPROPRIATE FOR THE PIPE, TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT FIVE (5) PERCENT MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT.
 - 19. CONTRACTOR SHALL VERIFY THAT THE TESTING METHODS DESIGNATED HEREIN ARE ACCEPTABLE TO THE LOCAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

STORM SEWER NOTES

- STORM SEWER PIPE: ALL STORM SEWER PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS INDICATED ON THE UTILITY PLAN. UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, IN ACCORDANCE WITH WISDOT STANDARD SPECIFICATIONS FOR DETERMINING PIPE CLASS AND CONFORMING TO ASTM C76. ANY CHANGES TO THE PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER. ENGINEER AND TOWN OF EAGLE PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL STORM SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: PIPE MATERIAL
- PIPE SIZE 12"–60" REINFORCED CONCRETE PIPE (ASTM C76); SEE WISDOT SPECS FOR PIPE CLASS POLYVINYL CHLORIDE PLASTIC PIPE SDR-26 (ASTM D3034 AND D2241) RCP HIGH DENSITY POLYETHYLENE PIPE 3"–48" DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151)
- 2. BAND-SEAL OR SIMILAR COUPLING SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.
- 3. ALL FOOTING DRAIN DISCHARGE PIPES AND DOWN SPOUTS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 4. CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- 5. COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO (2) FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES THAT HAVE LESS THAN TWO (2) FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.
- STRUCTURES: MANHOLE, CATCH BASIN, AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE A MINIMUM OF FOUR (4 FEET IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH "O" RING OR BUTYL ROPE. A MAXIMUM OF TWELVE (12) INCHES OF ADJUSTING RINGS SHALL BE USED
- 7. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND
- 8. THE FRAME, GATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS. 9. CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND
- TESTING.
- 10. THE STORM SEWER SHALL BE TELEVISED IF REQUIRED BY THE TOWN OF EAGLE. 11. MANHOLES, CATCH BASINS, INLETS, FRAMES, GRATES, AND OTHER STRUCTURES SHALL BE CONSTRUCTED TYPE, STYLE, AND SIZE AS SET FORTH WITH THE ORDINANCES AND STANDARDS OF THE TOWN OF EAGLE
- 12. ALL PVC PIPES CONNECTED TO REINFORCED CONCRETE PIPE SHALL BE CORED AND BOOTED PER THE TOWN OF EAGLE REQUIREMENTS.

WATERMAIN NOTES

- 1. WATERMAIN PIPE: ALL WATERMAIN PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS INDICATED ON THE UTILITY PLAN. UNLESS OTHERWISE NOTED ON THE PLANS, ALL WATERMAIN PIPE SHALL BE CONSTRUCTED OF BITUMINOUS-COATED CEMENT-LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING T ANSI A21.51 (AWWA C151). CEMENT MORTAR LINING SHALL CONFORM TO ANSI A21.4 (AWWA C104). THE JOINTS SHALL BE PUSH-ON COMPRESSION GASKET JOINTS CONFORMING TO ANSI A21.11 (AWWA C1 ANY CHANGES TO THE PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER, ENGINEER AND TOWN OF EAGLE PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL WATERMAIN PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: PIPE MATERIAL PIPE SIZE CODE
- DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND AWWA C151) TYPE "K" COPPER PIPE 3"–48" DIP
- 2. FITTINGS: ALL FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND MECHANICAL JOINTS CONFORMING TO ANSI AS21.10 (AWWA C110 VALVES: GATE VALVES SHALL BE USED ON ALL WATERMAINS. ALL VALVES SHALL TURN COUNTER-CLOCKWISE TO OPEN. VALVES SHALL BE IRON BODY RESILIENT WEDGE GATE VALVES WITH BRONZE-MOUNTED SEATS AND NON-RISING STEMS CONFORMING TO AWWA C-509. THE VALVES SHALL HAVE MECHANICAL JOINTS.
- AND BOLTS
- 4. THE MECHANICAL JOINTS AND ALL FASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS 5. VALVE VAULTS: VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES FIVE (5) FEET IN DIAMETER, AS NOTED ON THE PLANS. THE FRAME AND LID SHALL BE ACCORDING TO THE DETAIL ON THE PLANS, WITH "WATER" EMBOSSED ON THE LID.
- 6. FIRE HYDRANTS: SEE PLANS FOR APPROVED FIRE HYDRANT DETAIL. FIRE HYDRANTS SHALL BE INSTALLED
- WITH AN AUXILIARY VALVE AND CAST IRON VALVE BOX. FIRE HYDRANTS SHALL HAVE AUXILIARY VALVES WITH A HYDRANT BARREL TO VALVE BOX RESTRAINING DEVICE. THE PUMPER CONNECTION SHALL FACE THE ROADWAY
- 7. PROVIDE AND INSTALL FOUR MEGALUG JOINT RESTRAINTS AT EACH JOINT FROM THE MAINLINE TEE TO THE AUXILIARY VALVE AND BETWEEN THE AUXILIARY VALVE AND THE HYDRANT BARREL.
- 8. THE BREAK FLANGE AND ALL BELOW-GRADE FITTING SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.
- CORPORATION STOPS: CORPORATION STOPS SHALL BE BRONZE BODY KEY STOPS CONFORMING TO AWWA C-800 AND SHALL INCLUDE "J" BEND, TAILPIECE, AND COMPRESSION FITTINGS. SIZE AND LOCATION AS SHOWN ON THE PLANS.
- 10. SERVICE BOX: PROVIDE CURB VALVE AND CURB BOX, AS INDICATED ON THE PLANS. BOX SHALL BE
- EXTENSION TYPE WITH FOOT PIECE AND STATIONARY RODS FOR SIX (6) FEET OF BURY.
- THE PIPE HAS AN EVEN BEDDING FOR ITS ENTIRE LENGTH
- 12. BEDDING: ALL WATERMAINS SHALL BE BEDDED ON FIRM GROUND, WITH BELLHOLES EXCAVATED SO THAT 13. GRANULAR BEDDING MATERIAL OR GRANULAR BACKFILL MATERIAL SHALL BE CAREFULLY PLACED TO
- TWELVE (12) INCHES OVER THE TOP OF THE PIPE BEFORE FINAL BACKFILLING AND COMPACTION. 14. A MINIMUM DEPTH OF COVER OF 5-FEET, 6-INCHES SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL BE EIGHT (8) FEET, EXCEPT AT SPECIAL CROSSINGS AND ONLY AS DESIGNATED
- ON THE PLANS ..
- 15. "MEGA-LUG" RETAINER GLANDS AND THRUST BLOCKING SHALL BE INSTALLED ON WATERMAINS AT ALL BENDS, FITTINGS, TEES, ELBOWS, ETC. "MEGA-LUG" RESTRAINED JOINTS ARE REQUIRED ON ALL VALVES AND ALL FITTINGS. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE UNIT PRICE FOR THE PIPE INSTALLE
- 16. WATERMAIN PROTECTION: 16.1.
- HORIZONTAL SEPARATION 16.1.1
- WATERMAINS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, OR SEWER SERVICES CONNECTION. 16.1.2. WATERMAINS MAY BE LAID CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN:
- LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET; 16.1.2.1. 16.1.2.2. THE WATERMAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE
- 16.1.2.3. THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN

E, EXCEPT UNDER SPECIAL	
EAGLE IN WRITING PRIOR TO	
MINIMUM OF 18 INCHES ABOVE THE EDGE OF THE SEWER.	
EAS) SHALL HAVE A MINIMUM AST REINFORCED CONCRETE. A PIPE-STRUCTURE CONNECTION.	1

UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

16.1.3. WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION AND IN CONFORMANCE WITH THE STANDARDS FOR WATER AND SEWER CONSTRUCTION IN THE TOWN OF EAGLE. THE DRAIN OR SEWER SHALL BE PRESSURE-TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

CC I

16.2. VERTICAL SEPARATION

16.2.2.

I AA I

16.2.1. A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS, OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

BOTH THE STORM SEWER AND SANITARY SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION OR THE STORM SEWER SHALL BE CONSTRUCTED USING "O" RING GASKET JOINTS, PER ASTM C-443, OR THE WATERMAIN MAY BE IN ENCASED IN A WATERTIGHT CASING PIPE WHEN:

16.2.2.1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, AS DESCRIBED ABOVE; OR 16.2.2.2. THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.

A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR 16.2.3. DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING OF THE WATERMAIN

16.2.4. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET. 17. ALL WATERMAINS SHALL BE PRESSURE-TESTED FOR A MIN. OF 2 HOURS AT 200 PSI, FLUSHED, AND DISINFECTED IN ACCORDANCE WITH AWWA AND TOWN OF EAGLE SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE-TESTED FOR A MINIMUM OF ONE (1) HOUR. ALLOWABLE LEAKAGE IS TO BE ONLY THAT WHICH IS PREDETERMINED BY THE TOWN OF EAGLE. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN.

ADA GENERAL NOTES

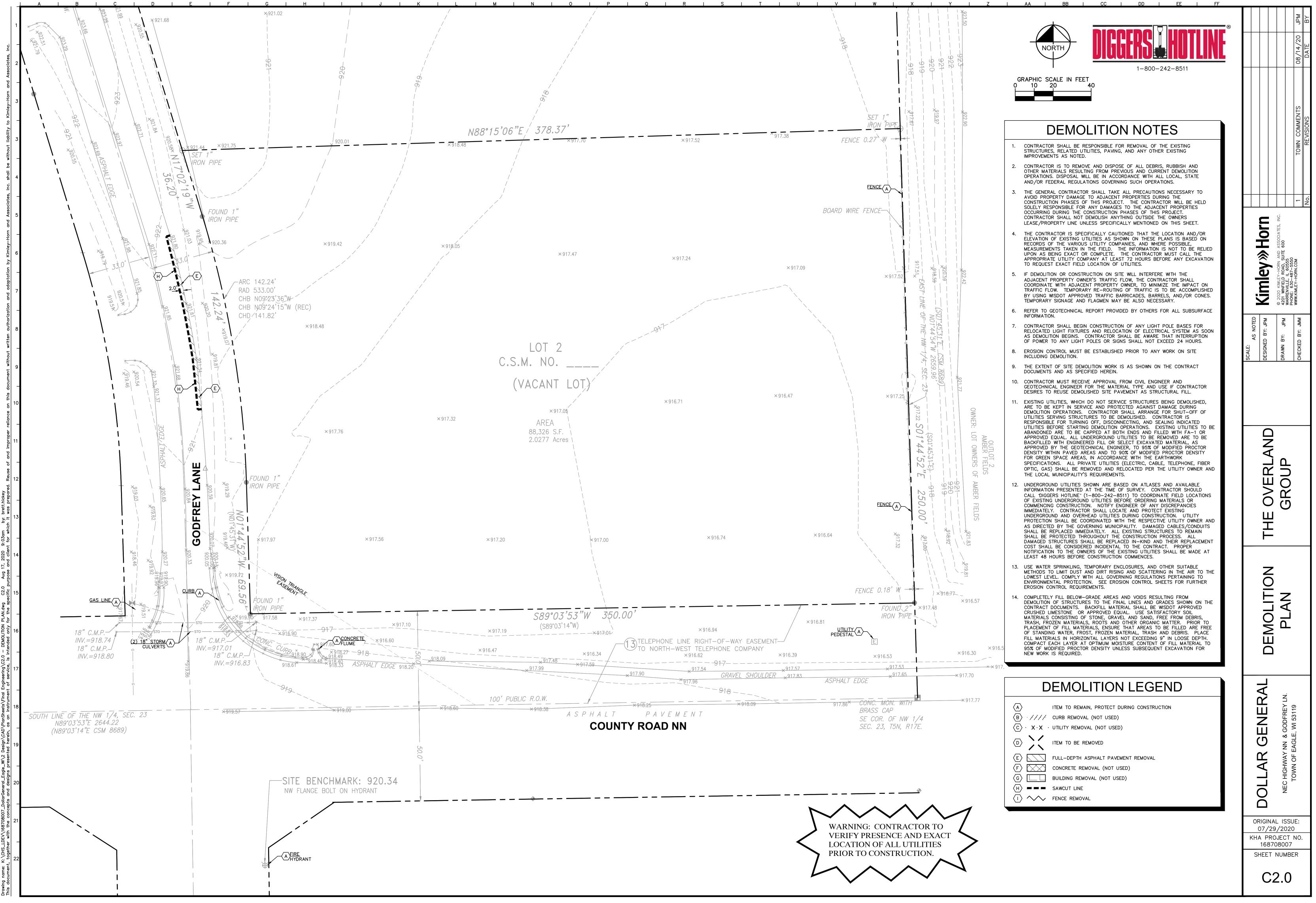
- CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS OF THE AUTHORITY HAVING JURISDICTION.
- . ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
- 3. ANY COMPONENTS OF THE PROJECT SERVING MULTI-FAMILY DWELLINGS IN BUILDINGS THAT HAVE (4) OR MORE UNITS PER DWELLING SHALL ALSO CONFORM TO THE FAIR HOUSING ACT (FHA), AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
- 4. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES, IN NO CASE SHALL AN ACCESSIBLE RAM SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION. 5. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO

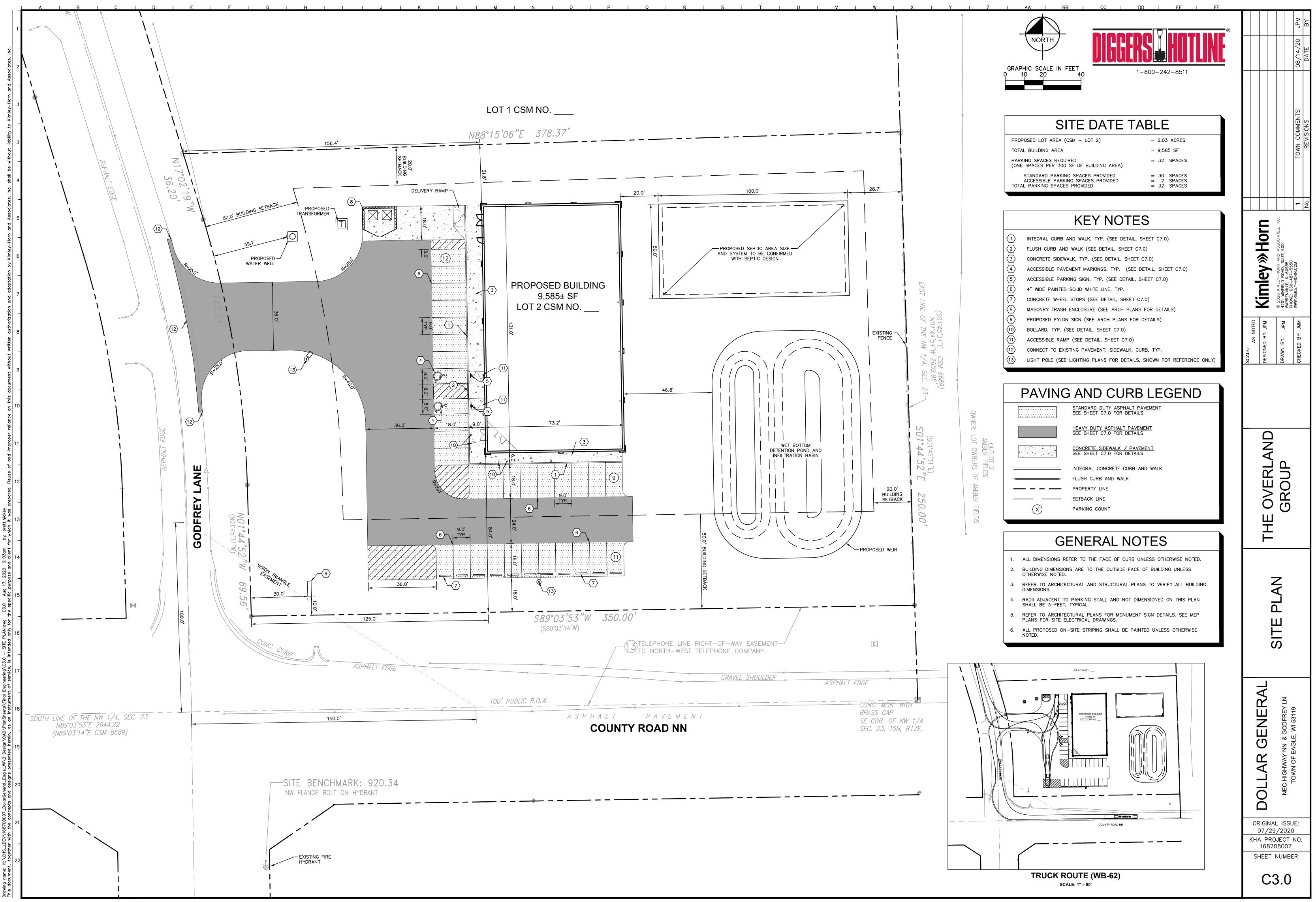
CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

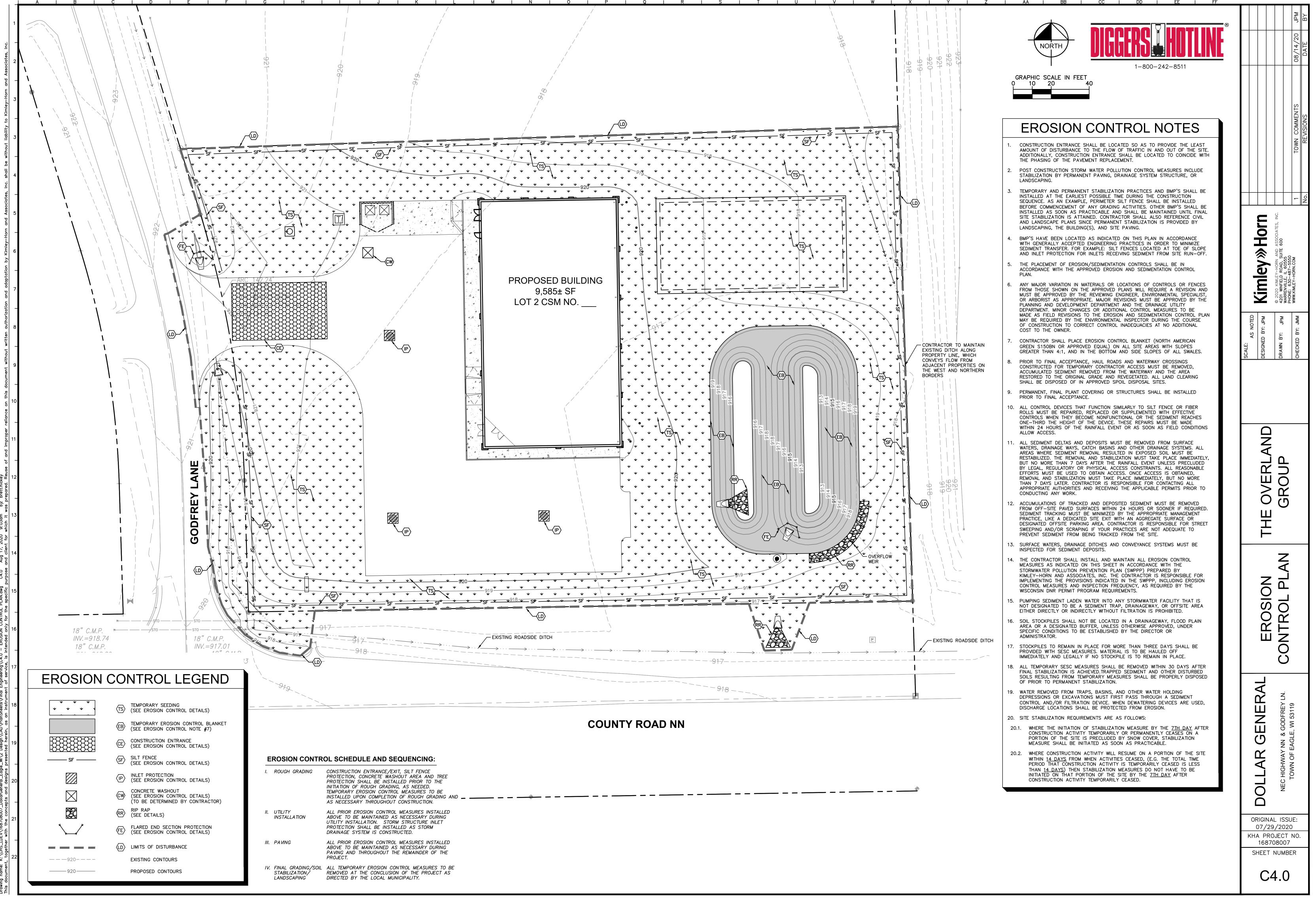
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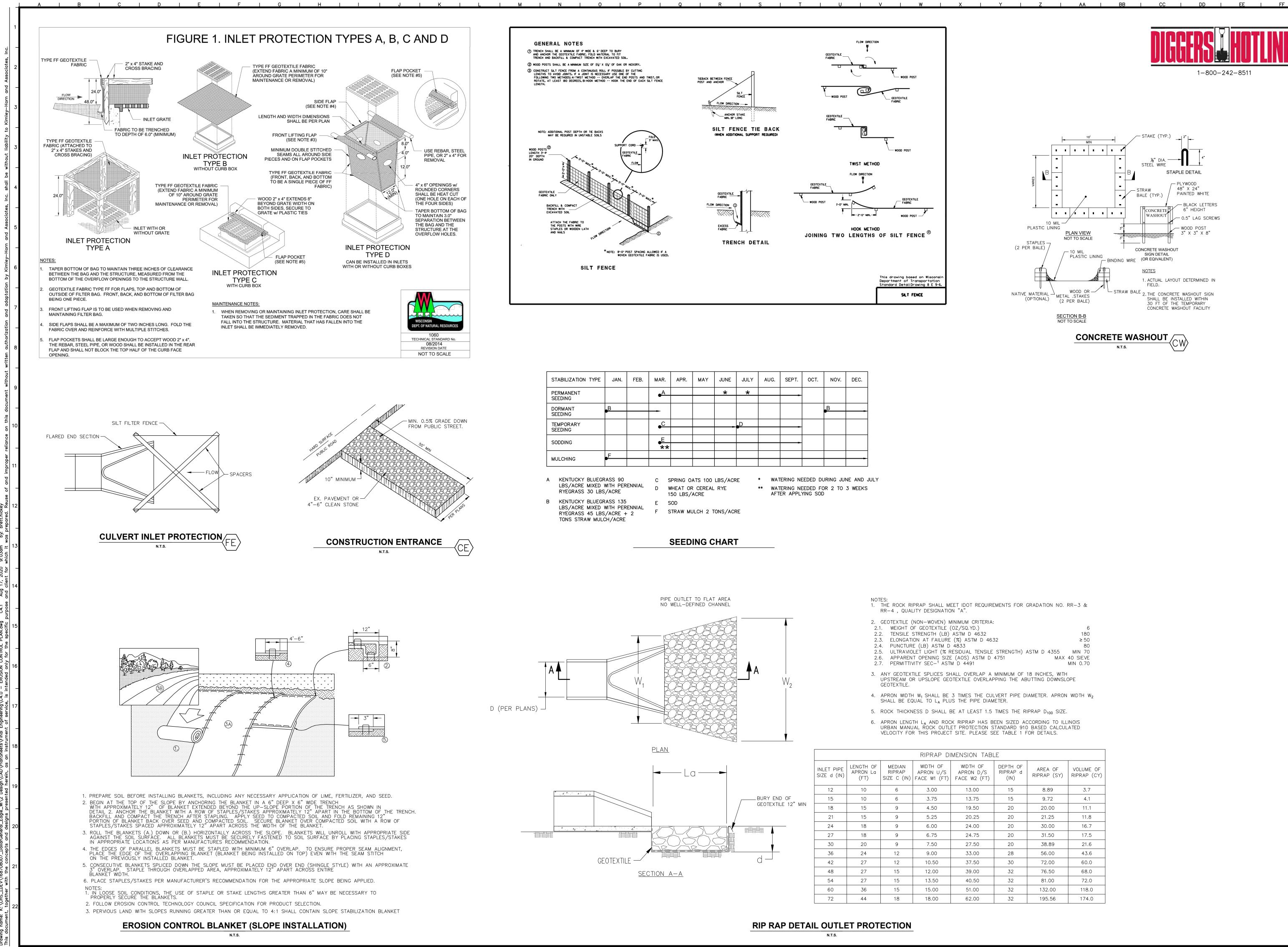
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ORIGINAL ISSUE: 07/29/2020 KHA PROJECT NC 168708007 SHEET NUMBER









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STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	ΜΑΥ	JUNE	JULY	AUG.	SEPT.	ост.	NOV.	DEC.
PERMANENT SEEDING			● ^A			*	*					
DORMANT SEEDING	В										В	
TEMPORARY SEEDING			• ^C				Ð					
SODDING			● <u>E</u> **									
MULCHING	F											

1. THE ROCK RIPRAP SHALL MEET IDOT REQUIREMENTS FOR GRADATION N RR-4 , QUALITY DESIGNATION "A".

- 2.1. WEIGHT OF GEOTEXTILE (OZ/SQ.YD.) 2.2. TENSILE STRENGTH (LB) ASTM D 4632 2.3. ELONGATION AT FAILURE (%) ASTM D 4632 2.4. PUNCTURE (LB) ASTM D 4833 2.6. APPARENT OPENING SIZE (AOS) ASTM D 4751
- 3. ANY GEOTEXTILE SPLICES SHALL OVERLAP A MINIMUM OF 18 INCHES, WI UPSTREAM OR UPSLOPE GEOTEXTILE OVERLAPPING THE ABUTTING DOWNS
- SHALL BE EQUAL TO LA PLUS THE PIPE DIAMETER.

	RIPRAP DIMENSION TABLE								
INLET PIPE SIZE d (IN)	LENGTH OF APRON La (FT)	MEDIAN RIPRAP SIZE C (IN)	WIDTH OF APRON U/S FACE W1 (FT)	WIDTH OF APRON D/S FACE W2 (FT)	DEPTH OF RIPRAP d (IN)	AREA OF RIPRAP (SY)	VOLUME OF RIPRAP (CY)		
12	10	6	3.00	13.00	15	8.89	3.7		
15	10	6	3.75	13.75	15	9.72	4.1		
18	15	9	4.50	19.50	20	20.00	11.1		
21	15	9	5.25	20.25	20	21.25	11.8		
24	18	9	6.00	24.00	20	30.00	16.7		
27	18	9	6.75	24.75	20	31.50	17.5		
30	20	9	7.50	27.50	20	38.89	21.6		
36	24	12	9.00	33.00	28	56.00	43.6		
42	27	12	10.50	37.50	30	72.00	60.0		
48	27	15	12.00	39.00	32	76.50	68.0		
54	27	15	13.50	40.50	32	81.00	72.0		
60	36	15	15.00	51.00	32	132.00	118.0		
72	44	18	18.00	62.00	32	195.56	174.0		

z + AA + BB + CC + DD + EE + FF	TOWN COMMENTS 08/14/20 JPM REVISIONS DATE BY
PER BALE (D MIL VOID TO SCALE PER BALE (D MIL VOIT TO SCALE PER BALE (D MIL VOIT TO SCALE (D MIL (D MIL	Scale: Scale as noted as noted Designed BY: JPM Kimby >> Horn Designed BY: JPM Example Visited Drawn BY: JPM Example Visited <
	THE OVERLAND GROUP
R GRADATION NO. RR-3 & $ \begin{array}{c} 6\\ 180\\ \geq 50\\ 80\\ \end{array} $ ASTM D 4355 MIN 70 MAX 40 SIEVE MIN 0.70 F 18 INCHES, WITH ABUTTING DOWNSLOPE DIAMETER. APRON WIDTH W_2 RIPRAP D ₁₀₀ SIZE.	EROSION CONTROL NOTES & DETAILS
RIPRAF 0100 SIZE. ACCORDING TO ILLINOIS NO BASED CALOULATED FOR DETAILS. Image: AREA OF RIPRAP (SY) VOLUME OF RIPRAP (CY) 8.89 3.7 9.72 4.1 20.00 11.1 21.25 11.8 30.00 16.7 31.50 17.5 38.89 21.6 56.00 43.6 72.00 60.0 76.50 68.0 81.00 72.0 132.00 118.0 195.56 174.0	DDLLAR GENERAL NECHIGHWAY NN & GODFREY LN. DOLIQINAL ISSUE: 07/29/2020 KHA PROJECT NO. 168708007
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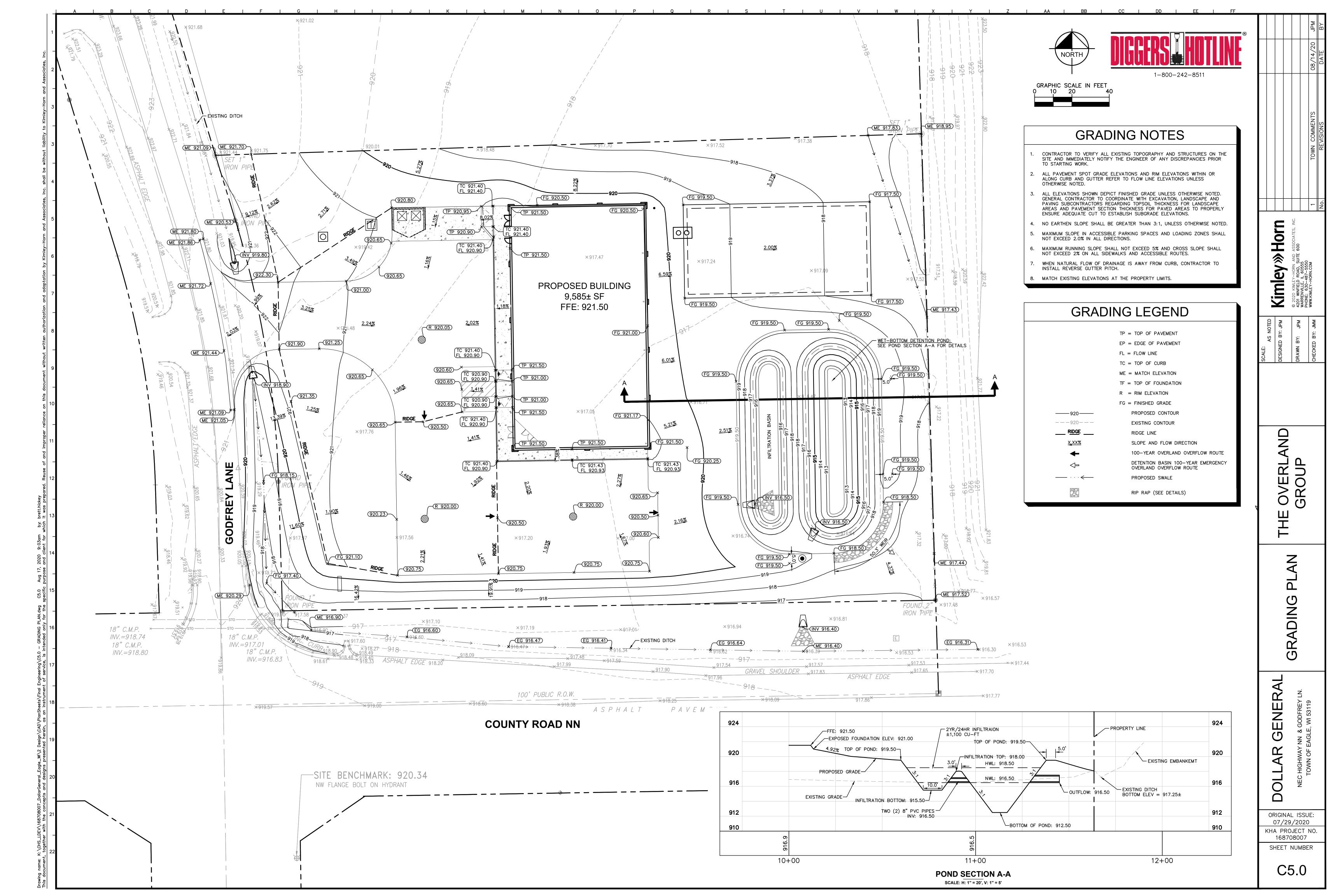
(2 PER BALE)

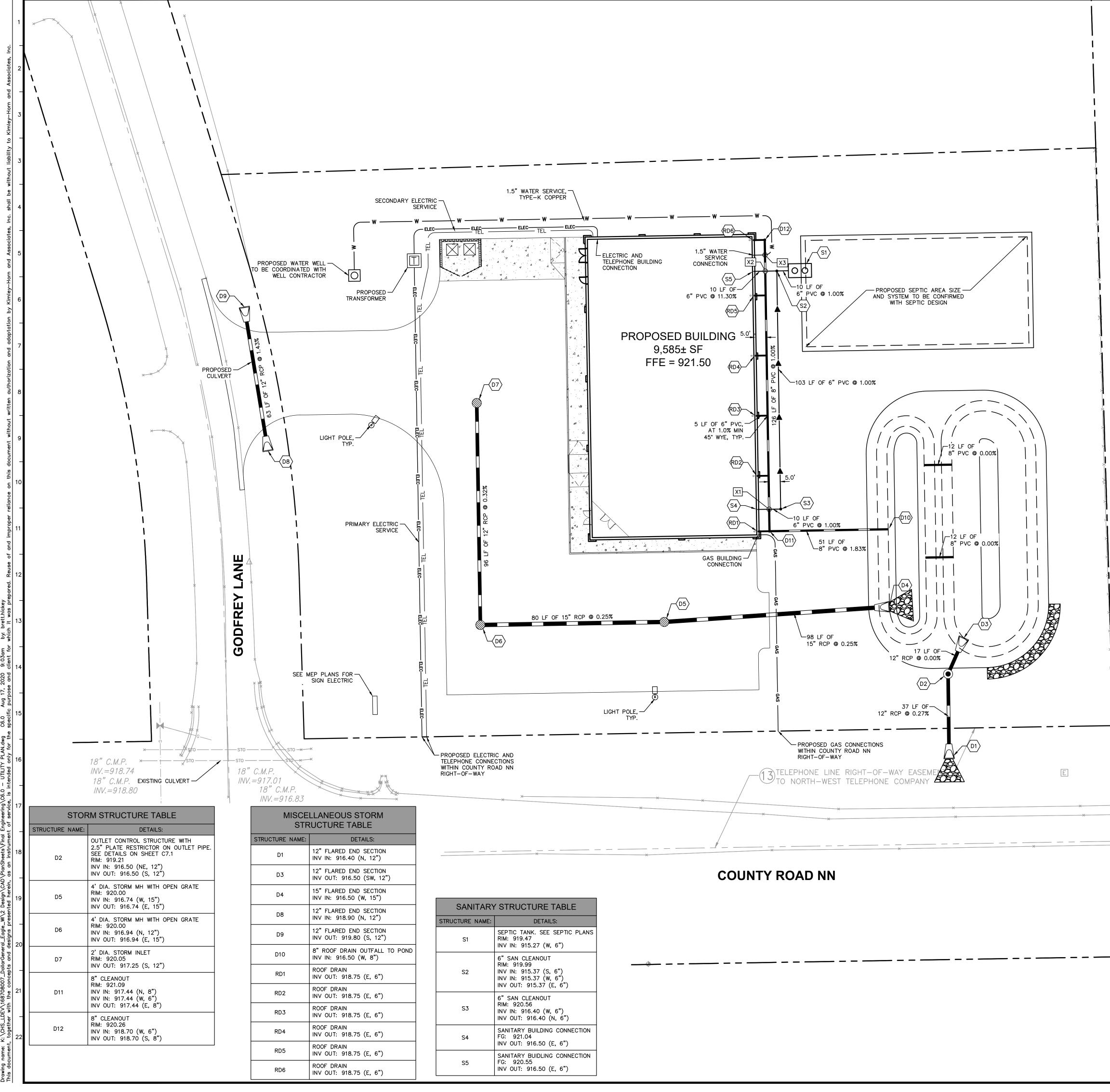
NATIVE MATERIAL -

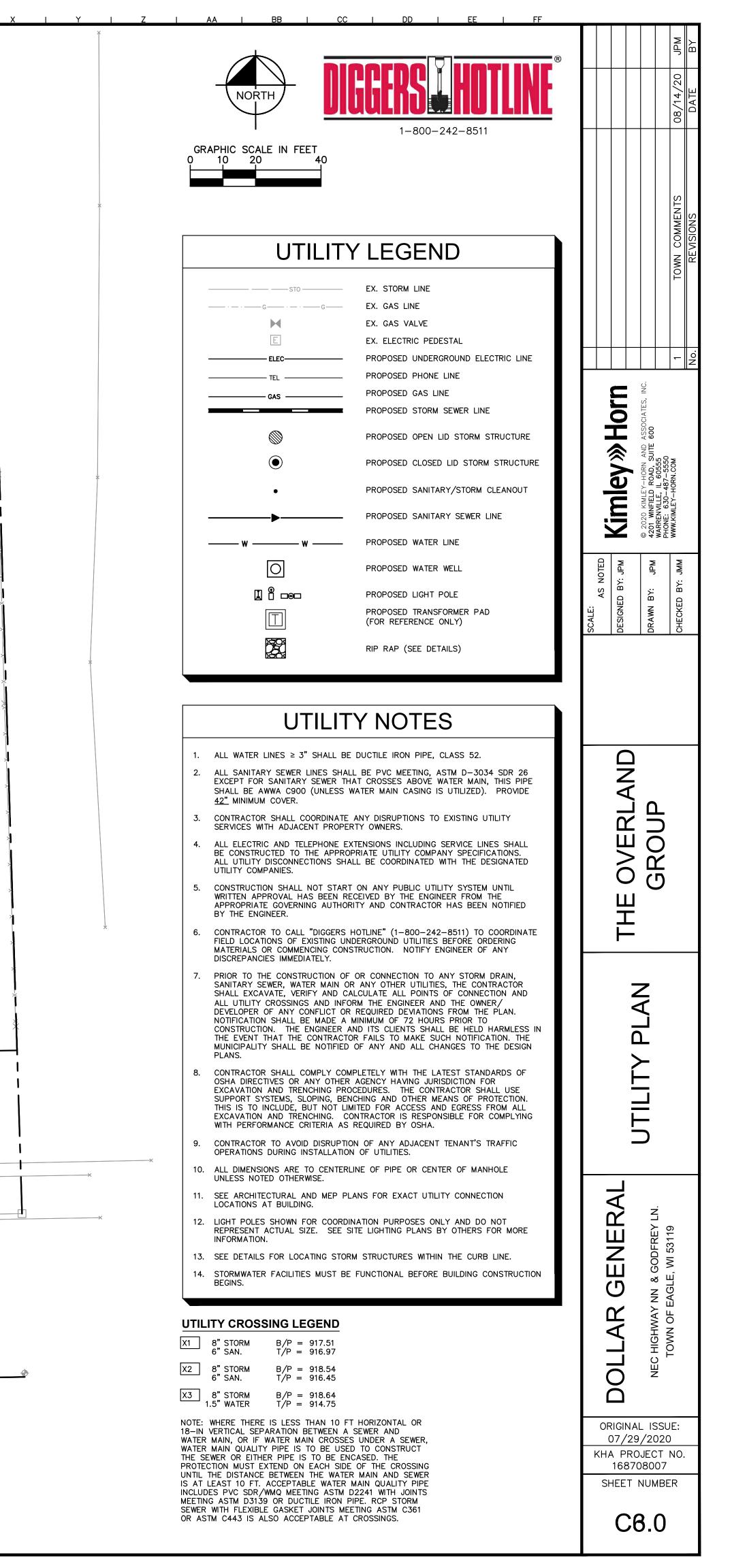
2.5. ULTRAVIOLET LIGHT (% RESIDUAL TENSILE STRENGTH) ASTM D 4355

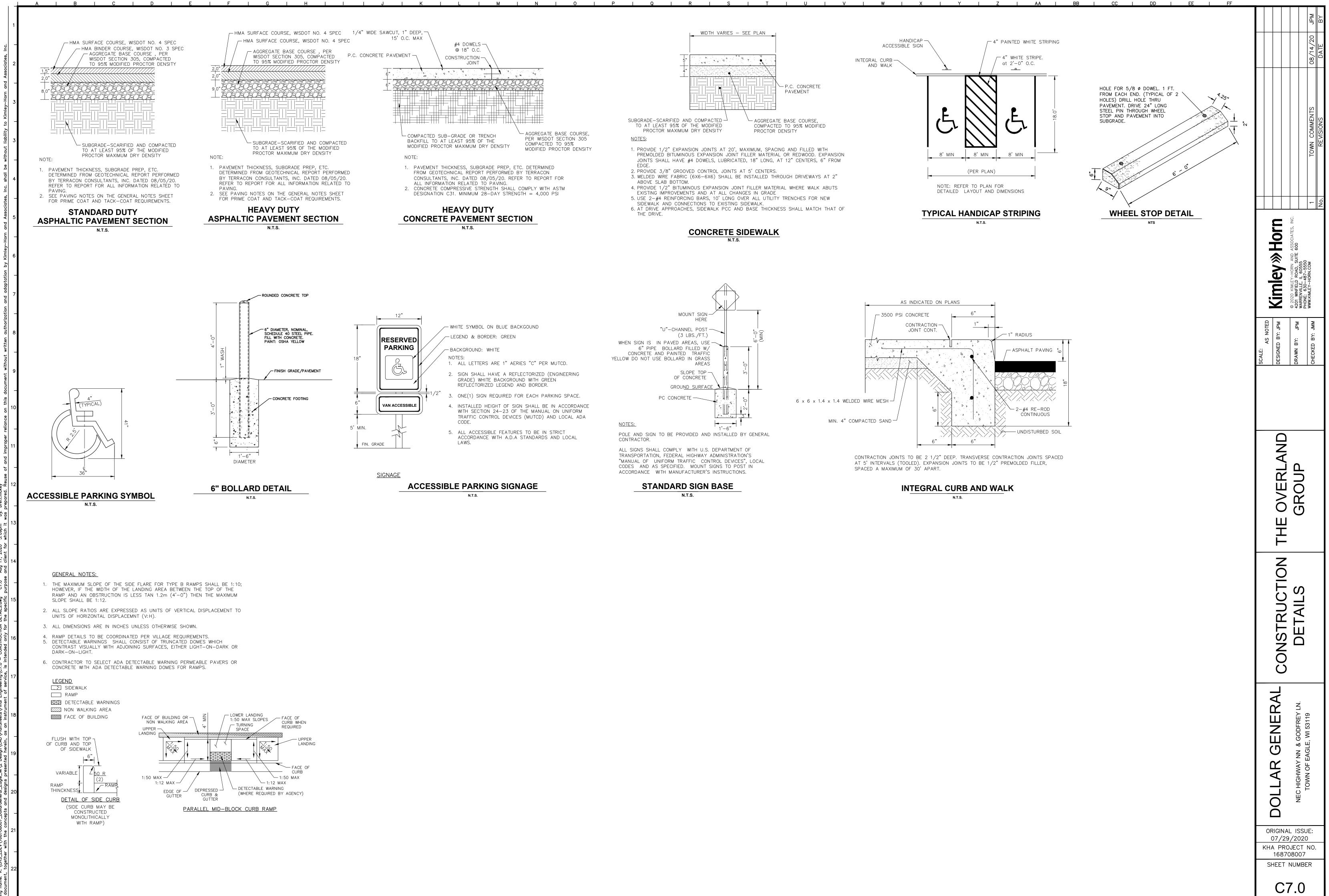
4. APRON WIDTH W1 SHALL BE 3 TIMES THE CULVERT PIPE DIAMETER. APR

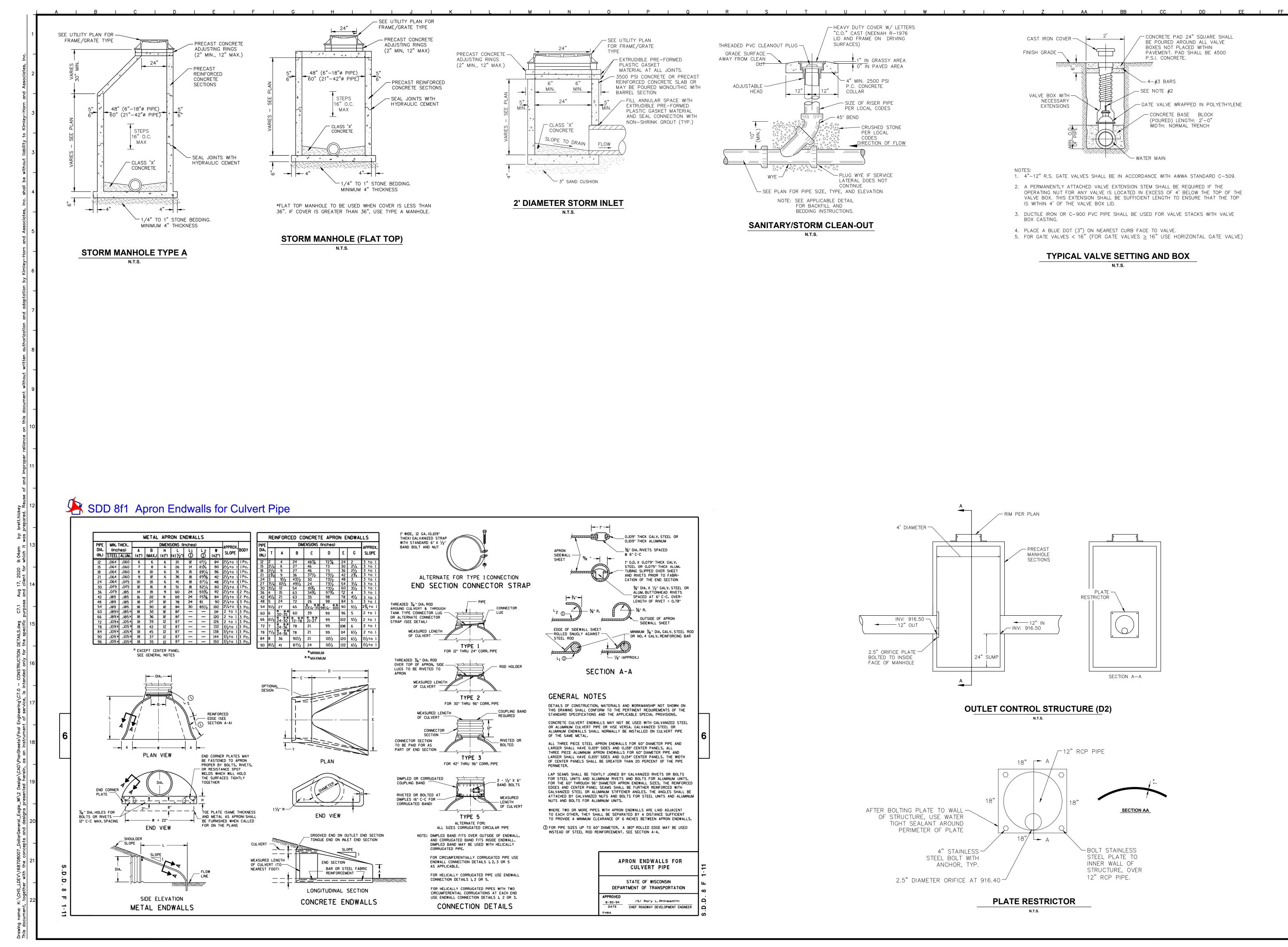
6. APRON LENGTH LA AND ROCK RIPRAP HAS BEEN SIZED ACCORDING TO URBAN MANUAL ROCK OUTLET PROTECTION STANDARD 910 BASED CAL VELOCITY FOR THIS PROJECT SITE. PLEASE SEE TABLE 1 FOR DETAILS.

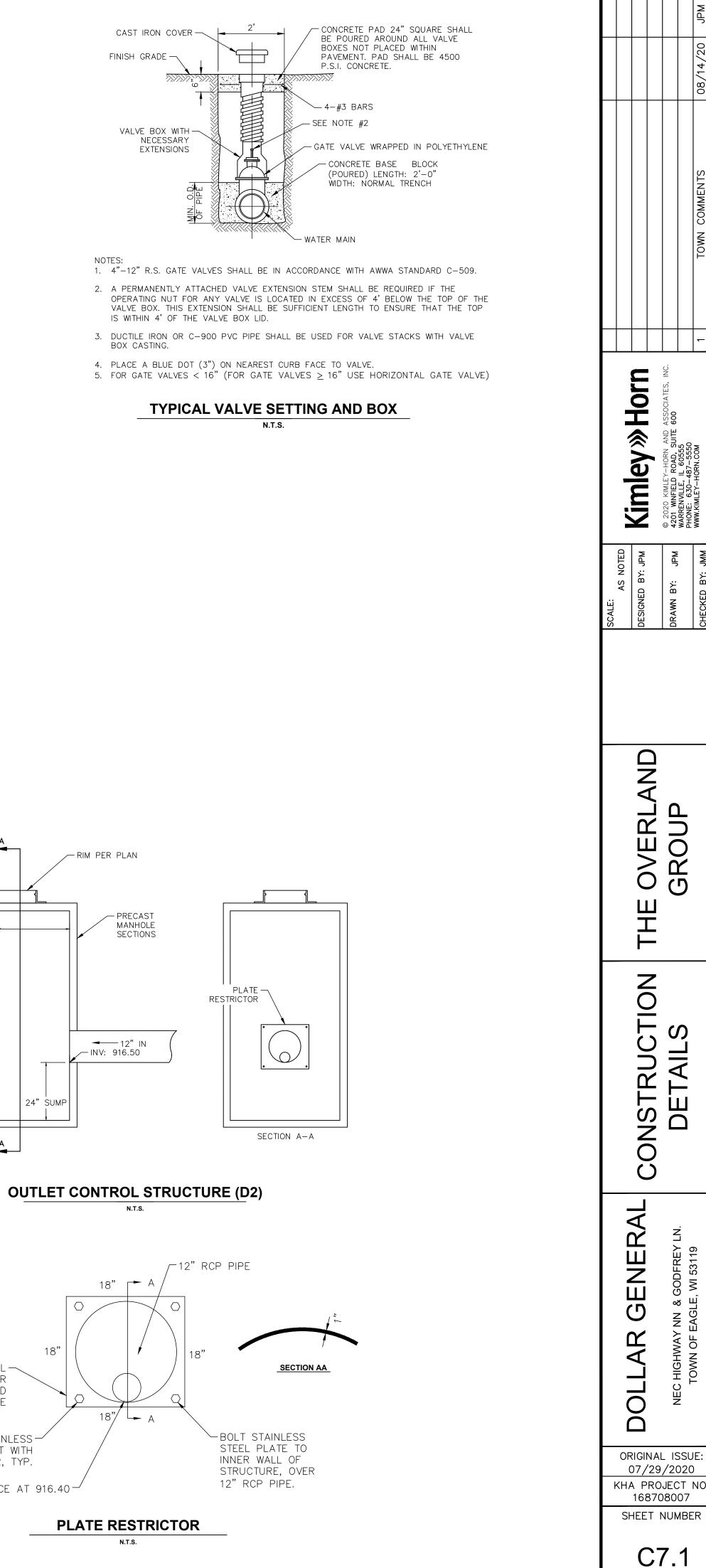


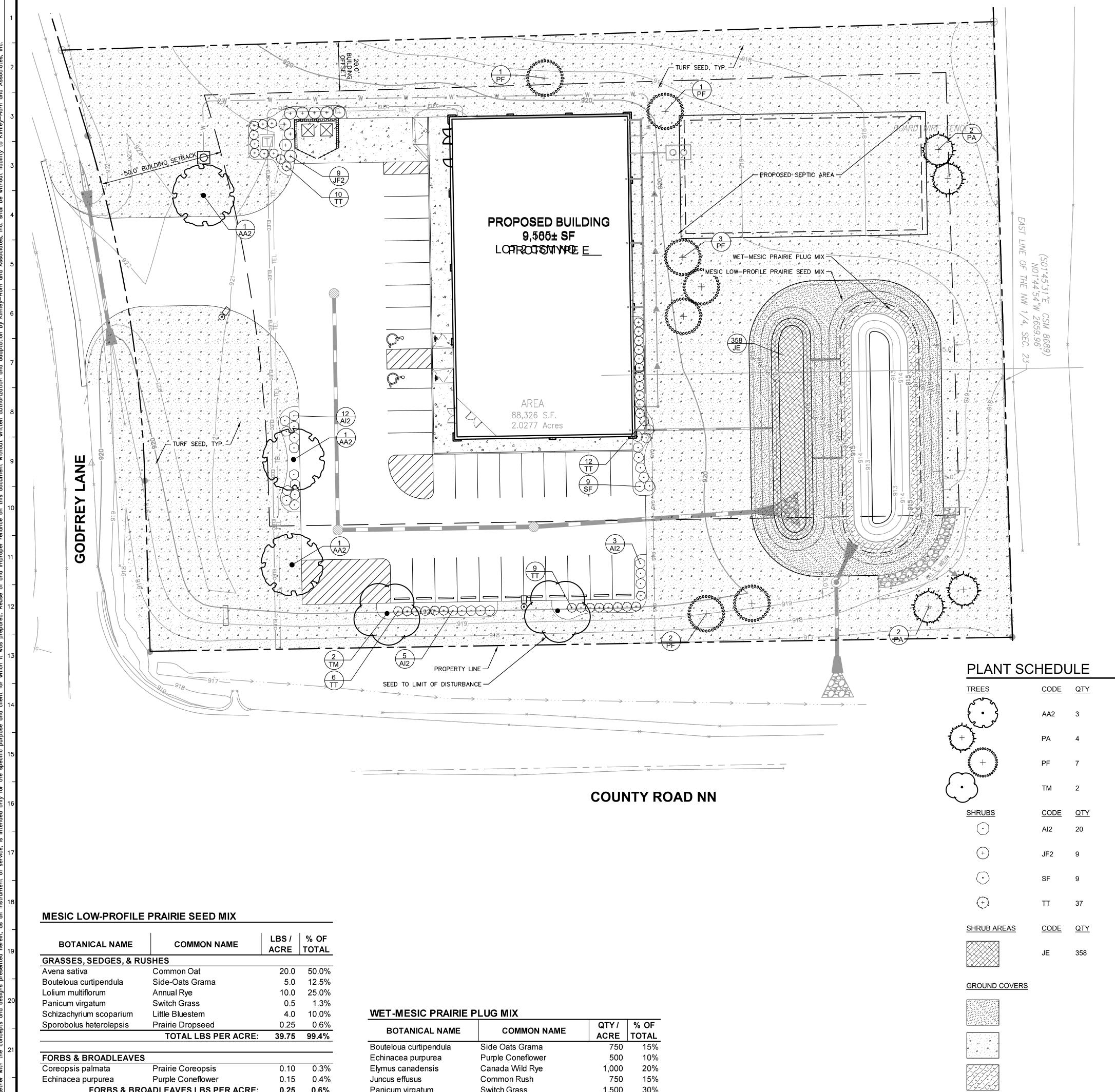












		LBS /	% OF
BOTANICAL NAME	COMMON NAME	ACRE	TOTAL
GRASSES, SEDGES, & RI	USHES		
Avena sativa	Common Oat	20.0	50.0%
Bouteloua curtipendula	Side-Oats Grama	5.0	12.5%
Lolium multiflorum	Annual Rye	10.0	25.0%
Panicum virgatum	Switch Grass	0.5	1.3%
Schizachyrium scoparium	Little Bluestem	4.0	10.0%
Sporobolus heterolepsis	Prairie Dropseed	0.25	0.6%
	TOTAL LBS PER ACRE:	39.75	99.4%
FORBS & BROADLEAVES	6		
Coreopsis palmata	Prairie Coreopsis	0.10	0.3%
Echinacea purpurea	Purple Coneflower	0.15	0.4%
FORBS & BR	OADLEAVES LBS PER ACRE:	0.25	0.6%
SEE	D MIX TOTAL LBS PER ACRE:	40.00	

VET-MESIC PRAIRIE PLUG MIX											
	QTY /	% OF									
	ACRE	TOTAL									
Side Oats Grama	750	15%									
Purple Coneflower	500	10%									
Canada Wild Rye	1,000	20%									
Common Rush	750	15%									
Switch Grass	1,500	30%									
Black-Eyed Susan	500	10%									
TOTAL PLUGS PER ACRE:	5,000										
	COMMON NAME Side Oats Grama Purple Coneflower Canada Wild Rye Common Rush Switch Grass Black-Eyed Susan	COMMON NAMEQTY / ACRESide Oats Grama750Purple Coneflower500Canada Wild Rye1,000Common Rush750Switch Grass1,500Black-Eyed Susan500									

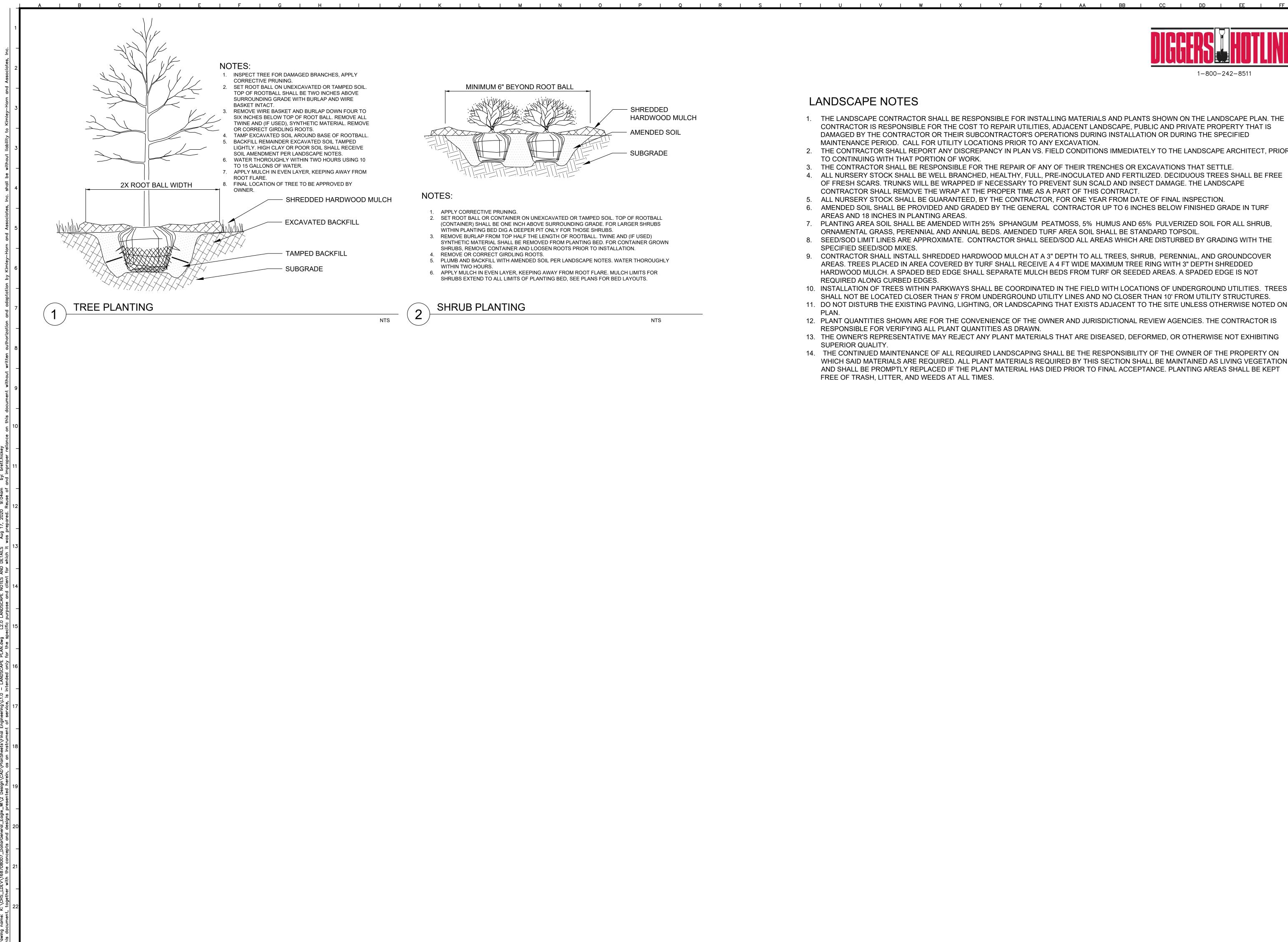
N O P Q R	S T T	U I	V I	W X Y Z AA BB	- <u>D</u>	The second secon	L EE	I FF		COMMENTS 08/14/20 JPM ISIONS DATE BY
PROPOSED SEPTIC AREA		, (SO) NI EAST LINE OF	×	LANDSCAPE CODE CODE REQUIRED STREET FRONTAGE 60 POINTS FOR EVERY 100 LF 350/100=3.5*60=210 BUILDING FOUNDATION	4 EVE	PROVIDED ECIDUOUS TREES RGREEN TREES=1 220 POINTS	60			1 TOWN C
++++++++++++++++++++++++++++++++++++++		* 1°45'31"E CSM 8689) 01°44'54"W 2659.96' THE NW 1/4, SEC. 2		25 POINTS FOR EVERY 100 FEET OF BUILDING FOUNDATION PERIMETER400/100=4*25=100PARKING LOT LANDSCAPE120 POINTS FOR EVERY 10,000 SF OF PAVED AREA16,510.58/10,000=1.65*120=198 POINTS	12 MEDIUM 3 TALL I 15 TALL D 7 MEDIUM	ERGREEN TREE=44 EVERGREEN SHR 100 POINTS DECIDUOUS TREE ECIDUOUS SHRUE EVERGREEN SHRUE 200 POINTS	UBS=60 =90 BS=75		EV-HORN AND ASSOCIATES, IN	D ROAD, SUITE 600 IL 60555 487-5550 HORN.COM
		<i>i</i> 9) 23		INTERIOR PARKING LOT LANDSCA 10 POINTS FOR EVERY 1,000 SF OF BUILDING FLOOR AREA *SCREENING OF UTILITIES PROVID	APE 9 LOW D	ECIDUOUS SHRUI 9 POINTS	3S= 9		NOTED Martine	JPM 4201 WINFIELD WARRENVILLE, 1 PHONE: 630–4 WWW.KIMLEY–HG
Contraction of the second seco	PLANT S TREES			<u>ΒΟΤΑΝΙCAL / COMMON NAME</u>	CONT	CAL	SIZE		THE OVERLAND	GROUP
	+ + + + + + + + + + + + + + + + + + +	AA2	3	ACER FREEMANII `AUTUMN BLAZE` / AUTUMN BLAZE MAPLE PICEA ABIES / NORWAY SPRUCE	B & B B & B	2" CAL MIN	4` HT MIN		PE	
Y ROAD NN	<u>SHRUBS</u> (+)	<u>CODE</u> Al2	7 2 <u>QTY</u> 20	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID PINE TILIA AMERICANA 'MCKSENTRY' / SENTRY LINDEN BOTANICAL / COMMON NAME ARONIA MELANOCARPA 'IROQUOIS BEAUTY' / BLACK CHOKEBERRY	В & В <u>CONT</u> -	2" CAL MIN <u>SPACING</u> SEE PLAN	4` HT MIN <u>SIZE</u> 36" HT MIN	<u>SPACING</u> 48" o.c.	LANDSCA	PLAN
	(+) (-) (+) <u>SHRUB AREAS</u>	SF TT <u>CODE</u>	9 9 37 <u>QTY</u> 358	JUNIPERUS CHINENSIS `FAIRVIEW` / FAIRVIEW JUNIPER SPIRAEA JAPONICA `NEON FLASH` / NEON FLASH SPIREA TAXUS X MEDIA `TAUNTONII` / TAUTON YEW BOTANICAL / COMMON NAME JUNCUS EFFUSUS / COMMON RUSH	- - <u>CONT</u> 2" PLUG	SEE PLAN SEE PLAN SEE PLAN	5` HT MIN 18" HT MIN 24" HT MIN	60" o.c. 48" o.c. 48" o.c. <u>SPACING</u> 24" o.c.	GENERAL	Y NN & GODFREY LN. FEAGLE, WI 53119
6 OF OTAL 15%	GROUND COVE			BOTANICAL / COMMON NAME MESIC LOW-PROFILE PRAIRIE SEED MIX TURF SEED					ORIGINAL	NEC HIGHWA TOWN OF
10% 20%									07/29/2 KHA PROJE	2020

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WET-MESIC PRAIRIE PLUG MIX

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168708007 SHEET NUMBER



SHREDDED HARDWOOD MULCH - AMENDED SOIL

SUBGRADE

(CONTAINER) SHALL BE ONE INCH ABOVE SURROUNDING GRADE. FOR LARGER SHRUBS

SYNTHETIC MATERIAL SHALL BE REMOVED FROM PLANTING BED. FOR CONTAINER GROWN

5. PLUMB AND BACKFILL WITH AMENDED SOIL PER LANDSCAPE NOTES. WATER THOROUGHLY

NTS

LANDSCAPE NOTES

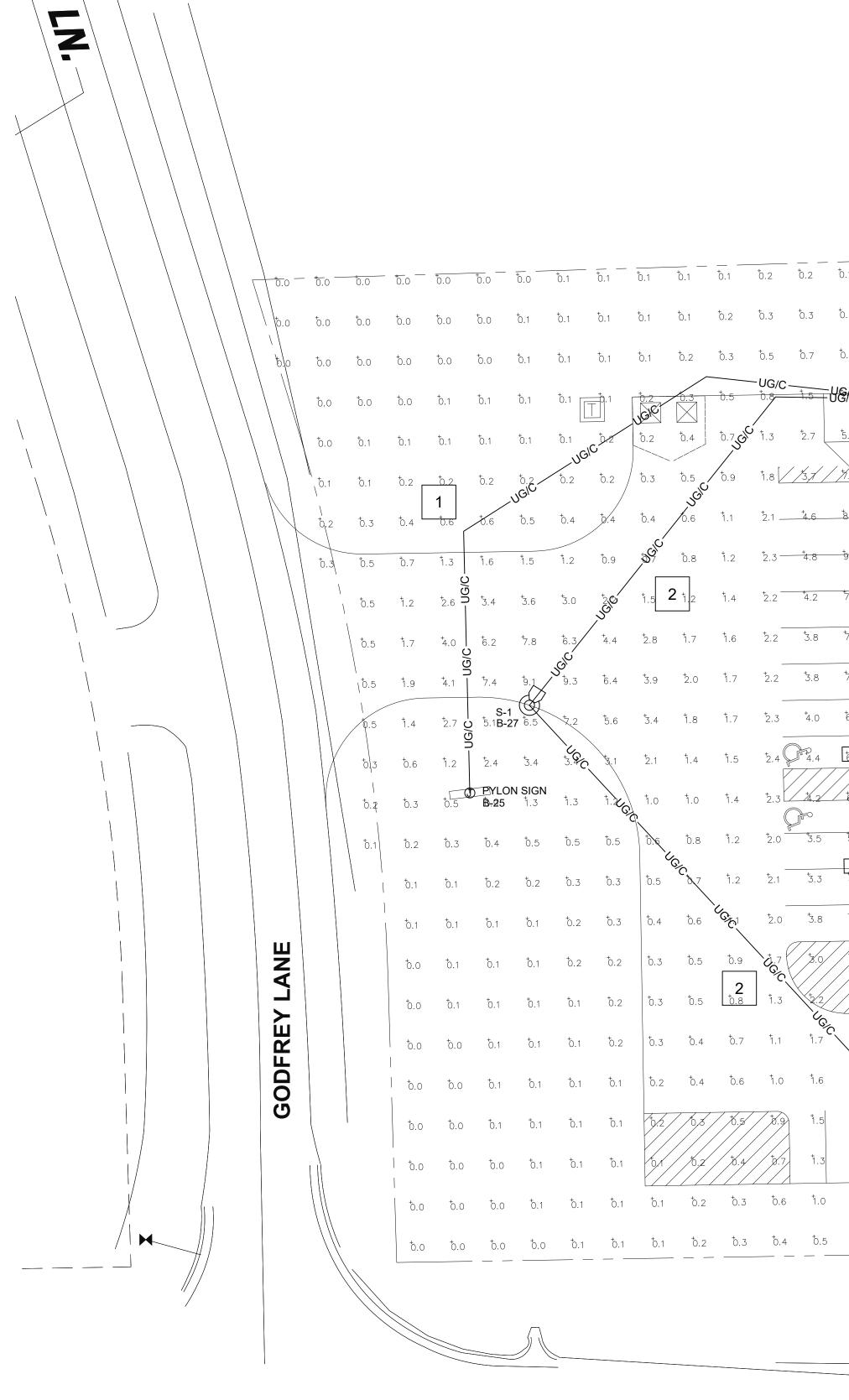
- 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MATERIALS AND PLANTS SHOWN ON THE LANDSCAPE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT LANDSCAPE, PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION OR DURING THE SPECIFIED MAINTENANCE PERIOD. CALL FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.
- 2. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY IN PLAN VS. FIELD CONDITIONS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, PRIOR TO CONTINUING WITH THAT PORTION OF WORK.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE. 4. ALL NURSERY STOCK SHALL BE WELL BRANCHED, HEALTHY, FULL, PRE-INOCULATED AND FERTILIZED. DECIDUOUS TREES SHALL BE FREE OF FRESH SCARS. TRUNKS WILL BE WRAPPED IF NECESSARY TO PREVENT SUN SCALD AND INSECT DAMAGE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE WRAP AT THE PROPER TIME AS A PART OF THIS CONTRACT.
- 6. AMENDED SOIL SHALL BE PROVIDED AND GRADED BY THE GENERAL CONTRACTOR UP TO 6 INCHES BELOW FINISHED GRADE IN TURF
- AREAS AND 18 INCHES IN PLANTING AREAS. 7. PLANTING AREA SOIL SHALL BE AMENDED WITH 25% SPHANGUM PEATMOSS, 5% HUMUS AND 65% PULVERIZED SOIL FOR ALL SHRUB, ORNAMENTAL GRASS, PERENNIAL AND ANNUAL BEDS. AMENDED TURF AREA SOIL SHALL BE STANDARD TOPSOIL. 8. SEED/SOD LIMIT LINES ARE APPROXIMATE. CONTRACTOR SHALL SEED/SOD ALL AREAS WHICH ARE DISTURBED BY GRADING WITH THE
- SPECIFIED SEED/SOD MIXES.
- 9. CONTRACTOR SHALL INSTALL SHREDDED HARDWOOD MULCH AT A 3" DEPTH TO ALL TREES, SHRUB, PERENNIAL, AND GROUNDCOVER AREAS. TREES PLACED IN AREA COVERED BY TURF SHALL RECEIVE A 4 FT WIDE MAXIMUM TREE RING WITH 3" DEPTH SHREDDED HARDWOOD MULCH. A SPADED BED EDGE SHALL SEPARATE MULCH BEDS FROM TURF OR SEEDED AREAS. A SPADED EDGE IS NOT REQUIRED ALONG CURBED EDGES.
- 10. INSTALLATION OF TREES WITHIN PARKWAYS SHALL BE COORDINATED IN THE FIELD WITH LOCATIONS OF UNDERGROUND UTILITIES. TREES SHALL NOT BE LOCATED CLOSER THAN 5' FROM UNDERGROUND UTILITY LINES AND NO CLOSER THAN 10' FROM UTILITY STRUCTURES. 11. DO NOT DISTURB THE EXISTING PAVING, LIGHTING, OR LANDSCAPING THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON
- PLAN. 12. PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL REVIEW AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES AS DRAWN.
- 13. THE OWNER'S REPRESENTATIVE MAY REJECT ANY PLANT MATERIALS THAT ARE DISEASED, DEFORMED, OR OTHERWISE NOT EXHIBITING SUPERIOR QUALITY.
- 14. THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH SAID MATERIALS ARE REQUIRED. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED IF THE PLANT MATERIAL HAS DIED PRIOR TO FINAL ACCEPTANCE. PLANTING AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES.



1-800-242-8511

5. ALL NURSERY STOCK SHALL BE GUARANTEED, BY THE CONTRACTOR, FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

			08/14/20 JPM	DATE BY
			TOWN COMMENTS	REVISIONS
			-	No.
	Kimley » Horn	© 2020 KIMLEY-HORN AND ASSOCIATES, INC. 4201 WINFIELD ROAD, SUITE 600 WARRENVILE, IL 66555	PHONE: 030-48/-0350 WWW.KIMLEY-HORN.COM	
SCALE: AS NOTED	DESIGNED BY: JPM	DRAWN BY: JPM	CHECKED BY: JMM	
	THE OVERLAND	GROUP		
			DEIAILS	
-	GENERAL	NEC HIGHWAY NN & GODFREY LN.	TOWN OF EAGLE, WI 53119	
			-	





COUNTY ROAD NN

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				R FOR USE SOLELY WITH RESPECT TO THIS PROJECT ESERVED RIGHTS, INCLUDING THE COPYRIGHT. THE E OJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITI	PATRICK D CROCKER E-46902-6 SPRINGFIELD MO NAL ENGINE



New Build Product Information

Data and Install Guides



PJF1 Linear LED Strip Light



Key Features

- Available in 2 ft., 4 ft., or 8 ft. models with lumen packages up to 9,730L.
- 161,000 hours L70 calculated life.
- Suspended or surface mounted.
- · Designed to facilitate easier installations.
- Industry leading 10-Year warranty.

Electrical -

- 120VAC input. 277-347 VAC input options also available.
- 0-10V dimming option available.
- · Photocell/motion sensor option available.
- Operating temperature: -30°C to +40°C (-22°F to +104°F)

Mounting

 Luminaire is ready to be suspended or surface mounted.

Construction

- Housing is constructed from steel in a standard white finish.
- Lens is frosted acrylic for uniform light distribution that's glare-free.
- End caps are high-impact injection molded PMMA material.

Optics

- Industry leading LEDs in 3500K, 4000K, or 5000K CCT (minimum 80 CRI).
- Color tuning option available.
- Lumen Maintenance >161,000 hours (L70)¹

Warranty

 Backed by US LED's industry leading 10-year warranty.

Project	Date

Catalog Number

Product Performance Summary

Lumen Output	Up to 9,730 lumens
Efficacy	Up to 145 LPW
CRI	≥ 80 CRI
Available CCT	3500K, 4000K, 5000K or Color Tuning (2700K-6500K) ⁴
Warranty	10-Year Warranty

Product Overview

Utilizing patented LED technology, the PJF1 is a low-profile linear solution that offers outstanding value and energy efficiency without compromising illumination. Designed for versatility, the PJF1 provides best-in-class performance for virtually any indoor lighting need. It's Ideal for lighting up manufacturing, commercial, warehouse, retail, or other display applications.

Product Applications

- Educational Facilities
 - Convenience Stores · Mall/Retail Areas
- Office Spaces Hallways/Corridors
- Health Care FacilitiesCommercial Spaces

Industrial/Warehouse

- **Product Certifications/Approvals**
- Complies with UL1598 and CSA 22.2
- DLC Premium Listed
- Suitable for indoor damp Locations
- · RoHS Compliant



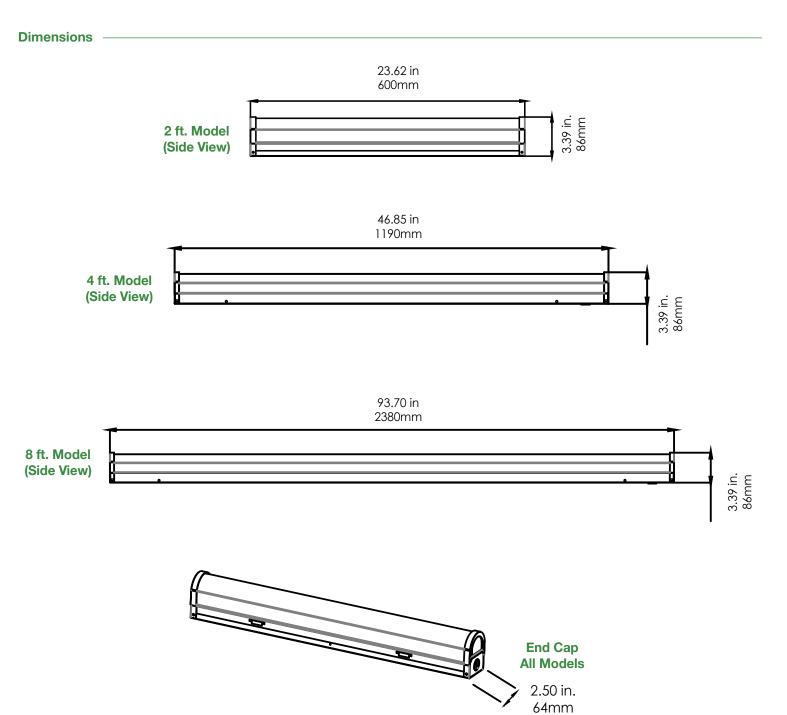
Example: PJF1-1-4-1-35-ID-35-D

Orde	ering Inform	nation										EXa	ampie: P	JF1-1	-4-1-35-ID-35-D
	PJF1														
	Series Va	ariant	Size	Input Voltage	Ρ	ower		Driver		ССТ		Contro	bl	Bat	ttery Back-Up
	1	Standard	_	1 120-277V	17	17W	iD	iNFiNi 0-10V	35	3500K	D	0-10V Dir	0	Blank	No Battery Back-Up
			4 4 ft.	C 120-347V	25	25W	B 4	Smart Blu™	40	4000K	1	LSXR-61	0-ADC ³	в	Integrated
			8 8 ft.		30	30W	_	Blu-Drive	50	5000K				_	Battery
					35	35W			т	2700K- 6500K 4					Back-Up ²
Powe	er Combinations		Smart Blu™ 0	Combinations	50	50W				NUUCO					
Size	Available Power	Size	Power	CCT 5	60	60W									
2 ft.	17W	2 ft.	17W	3500K, 4000K, 5000K	70	70W		ſ			Pow	ver Cable O	Ordering Info	ormatio	n
4 ft.	25W, 30W, 35W	4 ft.	25W, 30W, 35W	3500K, 4000K, 5000K					PJF1						
8 ft.	50W, 60W, 70W	8 ft.	50W, 60W, 70W	3500K, 4000K, 5000K					Series	Variant		Length	Color		Conductors
Socie to be	 US LED product 'Lifetimes' refer only to the LED light engine, not the power source, and are based on the Illuminating Engineering Society's TM21 Projected Lumen Maintenance methodology at a 25° C / 77° F ambient temperature. The lifetimes are solely meant to be a quide for expected LED degradation and not a warranty or predictive of their actual life, which can be affected by ambient 							ely meant		PC Power Cable	1	0 10 ft.	WH Wh	ite 1	(3) Qty. Conductors
2. Only 3. Optic	temperatures and other factors. 2. Only available with 4 ft. option. 3. Option is a passive infrared sensor.													2	(4) Qty. Conductors - Required for Battery Back-Up Option
				r, all lighting control benefits v	vill be ava	lable except co	olor tuni	ng [Option T].							

www.usled.com | 866-972-9191 | customerservice@usled.com Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specifications.

PJF1 Linear LED Strip Light





PJF1

091619

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PJF1 Linear LED Strip Light

The LSXR Family of fixture mount occupancy

sensors provides reliable and versatile solutions for commercial and industrial lighting control

applications. All LSXR Family sensors utilize

passive infrared (PIR) detection and feature

interchangeable lenses, providing flexibility for

multiple mounting height and coverage pattern



LSXR-610-ADC - Passive Infrared Sensor | High/Low Mount 360° | Dimming/Switching Photocell

Overview

requirements.

Key Features

- Four interchangeable lenses
- 100% digital PIR detection provides excellent RF immunity
- No PIR field calibration or sensitivity adjustments required
 - Powers from single or two-phase line connections
- Photocell and 0-10 VDC dimming options
- Digital push-button programming no tools or analog adjustments required
- Non-volatile settings memory
- Convenient test mode quickens initial walk and/or photocell testing
- LampMaximizer® minimum on timer (15 min) enables usage of shorter occupancy time delays while protecting fluorescent lamp life
- Default 10 minute occupancy time delay



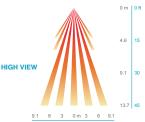
Specifications

- Size (w/ Mounting Flange): 3.75" H x 2.50" W x 4.00" D (9.5 cm x 6.4 cm x 10.2 cm)
- Weight: 6 oz
- Mounting: 1/2" knockout (7/8" hole) on fixture
- Maximum Load: 800 W @ 120 VAC, 1200 W @ 277 VAC, 1000 W @ 208 VAC, 1200 W @ 240
- VAC, 1500 W @ 347 VAC, 2160 W @ 480 VAC
- Motor Load: 1/4 HP
- Dimming Load: Sinks < 20 mA; (~ 40 LED drivers/ballasts @ 0.5 per) 0-10VDC dimmable ballasts or LED drivers only
- Temperature Rating: -20°C to 60°C for models with suffix LT
- -10°C to 60°C for all other models



- Best choice for 15 to 45 ft (4.57 to 13.72
- m) mounting heights 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical
- high bay fixture Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height
- Tested to NEMA WD 7-2011















Smart Blu™ Bluetooth Lighting Control



Simple, Affordable, and Effective Bluetooth Lighting Control iOS and Android Compatible APP



SMART BLU[™] is a wireless lighting control system that utilizes Bluetooth 4.0 Mesh Network technology to transmit lighting control data from a smartphone to Lights & Switches (**Nodes**). Nodes cooperate in the transmission of data to ensure integrity.

SMART BLU[™] enables significant power and maintenance savings for LED lighting through simple automation processes while allowing for individual freedom to adjust as necessary.

Mesh Networks (**Zones**) can range from 1 to 100 Nodes maximum. Buildings may be divided into many different Zones with each having it's own distinct encryption and QR Code. For example, a School may have classrooms, corridors, gym and offices



divided into Zones. An Office Tower could have each floor divided into open area, perimeter offices, meeting rooms and reception Zones.

Nodes consist of Lights, Switches, & Gateways. Lights may include onboard motion detectors and daylight photo sensors.





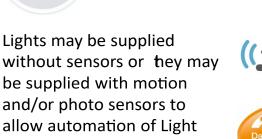


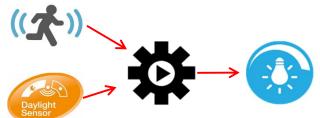
Smart Blu[™] Bluetooth Lighting Control (Cont.)

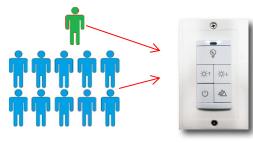
level control.



Lights may be offered in <u>one</u> color (monodimmable) or in <u>two</u> colors (2-chanrel dimmable). 2-channel Lights may be color-tuned anywhere from very warm to very cool.



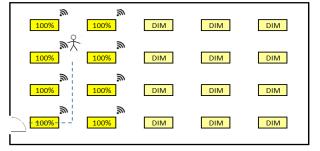




Lights may be controlled individually or in Groups. They can be set to operate automatically via sensors and/or respond to manual switches or smartphones.

Lights may also be linked such that if one Light motion sensor is tripped, all other Lights in the Group respond in unison thus making the whole space appear lit and less foreboding.

100%



Daylight Harvesting is taking advantage of natural light that enters an interior space through windows by

adjusting artificial lighting to save power. SMART BLU™ can dim Lights closest to windows lower than Lights further away from windows.

50%



80%





Smart Blu[™] Bluetooth Lighting Control (Cont.)



R Automation Defaults

SMART BLU[™] incorporates Motion and Photo detectors. Motion detectors sense the presence of people and Photo detectors measure light levels. When enabled, these detectors can automatically make light level adjustments within a space without requiring manual adjustments by the occupants. The idea is to Automatically provide the right amount of light when it is needed and to dim or shut lights Off when it is not. The purpose of making automatic adjustments is to save on energy and maintenance costs.

SMART BLU[™] allows you to set Automation Defaults (Brightness, and Motion/Photo Detectors) for individual Lights or Groups of Lights. These may be disabled by choosing static Scenes via the APP or from physical Switches.

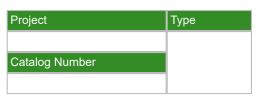
Automation Defaults may be set in two different sections of the APP; "Lights" and "Groups". NOTE: If you set an Automation Default in one section, then alter the settings in another section, the LAST settings you make will be expressed by the system.

An Automation icon 🗱 will appear in the following sections where it applies.



Scenes may becreated with Groups and/or Individual Lights by adjusting brightness levels and color temperature (if available). Consider meeting rooms or classrooms when presentations are given and you wish to dim the light to view a smartboard or TV but still wish to provide light on the presenter.





QubePAK Regal XL

Wall Pack Luminaire

For exterior wall lighting applications in new construction or retrofit opportunities, US LED reveals the new QubePAK Regal XL. The QubePAK Regal XL family is an economical and scalable wall pack solution to replace existing fluorescent, high-pressure sodium and metal halide technologies. The QubePAK Regal XL is designed specifically for versatility, providing a variety of lumen packages ranging from 3,760 to 8,550 lumens.



Features

- Outdoor downlight wall pack (down facing mount only)
- Integrated dimming photocell offers daylight harvesting with on/off control
- J-box or conduit wiring
- Full cutoff to eliminate forward and upward light
- Easy installation with secure lock hinge design
- Low profile design
- 5-year warranty

Specifications Average Value for Family Products

-		
Spec Туре	Series 30, 40 & 50	Series 80
Dimensions	8" x 7.8" x 3.9"	10.38" x 8.66" x 5.81"
Units/Carton	1	1
Net Weight	5.1 lbs.	8.35 lbs.
Environmental Rating	Wet	Wet

Certifications

- UL Listed for US and Canada (E338791)
- DesignLights Consortium Listed

- DesignLights Consortium Listed - Premium (50W Only)





DoradoXLE **Outdoor LED Area/Site Luminaire**



Kev Features

- Easy installation by one person in the field.
- Full cutoff to eliminate forward/upward light.
- Slip fitter, pole mount, or trunnion mount options available.³
- Type III or Type V distributions available.
- Flux options available range from 13,000 to 38.000 lumens.
- Industry leading 10-Year warranty.

Electrical -

- 120-277V or 277-480V available.
- 0-10V dimming standard.
- 10kV surge protection standard.
- System power factor >90% and THD <20%.
- Photocell/motion sensor options available. Operating temperature: -30°C to +40°C
- (-30°F to +104°F)

Ordering Information

Mounting

· Slip fitter, pole mount, or trunnion mounting options available. 3

Construction

- Robust die-cast aluminum protects integral components from harsh environments and optimizes thermal management.
- Housing is protected by a corrosion resistant powder coat finish.
- Standard dark bronze finish. Custom colors available by request.
- IP66 rated enclosure prevents intrusion from environmental elements that could degrade performance.

Optics

- Precision molded optics available in Type III or Type V distributions.
- and 5000K CCT (minimum 70 CRI).

Warrantv

Backed by US LED's industry leading 10-year warranty.

roject	Date

Catalog Number

Р

Type

Product Performance Summary

Lumen Output	Up to 38,000 lumens
Efficacy	Up to 136 LPW
CRI	≥ 70 CRI
Available CCT	3000K, 4000K & 5000K
Warranty	10-Year Warranty

Product Overview

For exterior pole and area lighting applications in new construction or retrofit opportunities, US LED brings the DoradoXLE. The DoradoXLE offers an array of options to accommodate any pole or area lighting requirement, including an assortment of light distributions, mounting methods and luminaire finishes. The DoradoXLE is designed to be oriented either vertical or horizontal, thus increasing its adaptability and functionality on any project.

Product Applications

- Auto Dealerships
- Parking Lots
- Educational Facilities
 - Industrial Facilities

Mall/Retail Areas

· Commercial Exteriors

- Business Campuses Security Areas · Site Pathway Areas
 - **Recreational Areas**

Product Certifications/Approvals

- · ETL Listed for US & Canada.
- Complies with UL1598 and CSA C22.2.
- DLC Premium Listed.
- Suitable for Wet Locations.
- . IP66 Rated Enclosure.
 - RoHS Compliant.



Example: QDXLE1-100-50-UNVL-1-3-N-Z5

								M	ounting Ordering Info	orma	tion				
											Z 5				
del	(ССТ	Input Voltage		Finish Op		Optics	Sensor		Product Code	Series ³		Finish		
100W	30	3000K	UNVL	120-277V	1	Bronze ²	3	Туре 3	N	No Sensor		DYS1	Slip fitter Mount	1	Bronze ²
120W	40	4000K	UNVH	277-480V	2	White ²	5	Type 5	D1	Photocell			Tenon	2	White ²
150W	50	5000K										DYF1	Arm Mount - Flat		
200W												DYRA 4	Round Pole		
250W															
300W												DYT1	Irunnion Mount		
	100W 120W 150W 200W 250W	100W 30 120W 40 150W 50 200W 250W	30 3000K 120W 40 4000K 150W 50 5000K 200W 250W 50	30 3000K UNVL 120W 40 4000K UNVH 150W 50 5000K 200W 250W 250W 200K 200K	30 3000K UNVL 120-277V 120W 40 4000K UNVH 277-480V 150W 50 5000K 200W 250W	100W 30 3000K UNVL 120-277V 1 120W 40 4000K UNVH 277-480V 2 150W 50 5000K 200W 250W	100W 30 3000K UNVL 120-277V 1 Bronze ² 120W 40 4000K UNVH 277-480V 2 White ² 150W 50 5000K - - - - - 200W 250W -	100W 30 3000K UNVL 120-277V 1 Bronze ² 3 120W 40 4000K UNVH 277-480V 2 White ² 5 150W 50 5000K 5 5 5 5 200W 2 5 5 5 5 5 250W 2 5 5 5 5 5	100W 30 3000K UNVL 120-277V 1 Bronze ² 3 Type 3 120W 40 4000K UNVH 277-480V 2 White ² 5 Type 5 150W 50 5000K E E E E E E 200W 250W E E E E E E E E	100W 30 3000K UNVL 120-277V 1 Bronze ² 3 Type 3 N 120W 40 4000K UNVH 277-480V 2 White ² 5 Type 5 D1 150W 50 5000K	100W 30 3000K UNVL 120-277V 1 Bronze ² 3 Type 3 N No Sensor 120W 40 4000K UNVH 277-480V 2 White ² 5 Type 5 D1 Photocell 150W 50 5000K - <th>del CCT Input Voltage Finish Optics Sensor Product Code 100W 30 3000K UNVL 120-277V 1 Bronze² 3 Type 3 N No Sensor 120W 40 4000K UNVH 277-480V 2 White² 5 Type 5 D1 Photocell 150W 50 5000K V</th> <th>Image: Second Second</th> <th>Image: Constraint of the second state of the second sta</th> <th>del CCT Input Voltage Finish Optics Sensor Product Code 100W 30 3000K UNVL 120-277V 1 Bronze² 3 Type 3 N No Sensor 120W 40 4000K UNVH 277-480V 2 White² 5 Type 5 D1 Photocell DYS1 Slip fitter Mount for 2 ³/s" Round Tenon 2 150W 50 5000K 5000K UNVH 277-480V 2 White² 5 Type 5 D1 Photocell DYR1 Arm Mount - Flat 200W 250W 250W UNT1 Truncing Mount Truncing Mount Truncing Mount</th>	del CCT Input Voltage Finish Optics Sensor Product Code 100W 30 3000K UNVL 120-277V 1 Bronze ² 3 Type 3 N No Sensor 120W 40 4000K UNVH 277-480V 2 White ² 5 Type 5 D1 Photocell 150W 50 5000K V	Image: Second	Image: Constraint of the second state of the second sta	del CCT Input Voltage Finish Optics Sensor Product Code 100W 30 3000K UNVL 120-277V 1 Bronze ² 3 Type 3 N No Sensor 120W 40 4000K UNVH 277-480V 2 White ² 5 Type 5 D1 Photocell DYS1 Slip fitter Mount for 2 ³ /s" Round Tenon 2 150W 50 5000K 5000K UNVH 277-480V 2 White ² 5 Type 5 D1 Photocell DYR1 Arm Mount - Flat 200W 250W 250W UNT1 Truncing Mount Truncing Mount Truncing Mount

US LED product 'Lifetimes' refer only to the LED light engine, not the power source, and are based on the Illuminating Engineering Society's TM21 Projected Lumen Maintenance methodology at a 25° C / 77° F ambient temperature. 1. The lifetimes are solely meant to be a guide for expected LED degradation and not a warranty or predictive of their actual life, which can be affected by ambient temperatures and other factors Custom colors available upon request.

Mounting included in the luminaire pricing

DYRA option must be purchased with DYF1 option.

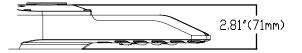
- Industry leading LEDs with 3000K, 4000K,
- Lumen Maintenance >152,000 hours (L70)¹



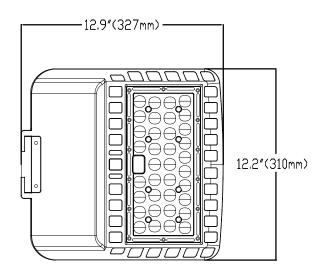


Dimensions

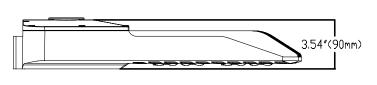
Models 100W-120W-150W (Side View)



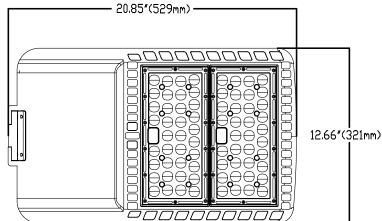
Models 100W-120W-150W (Bottom View)



Models 200W-250W-300W (Bottom View)



Models 200W-250W-300W (Side View)



Model	Net Weight
100W/120W/150W	10.5 lbs. (4.8kg)
200W/250W/300W	13 lbs. (5.9kg)

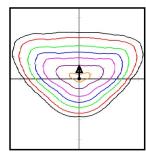
DoradoXLE Outdoor LED Area/Site Luminaire



Optical Distributions

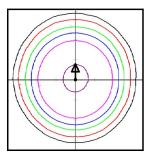
All photometric testing performed to IESNA LM-79 standards by a NVLAP® accredited testing facility. ISO footcandle plots below demonstrate the distribution patterns only based on 25' mounting height. Visit www.usled.com for complete specifications and IES files.

Type III Distribution



Type III distribution projects light more forward and equally on both sides in an asymmetric pattern. Most commonly used in parking areas, wider roadways, and other areas where a larger area of lighting is required.

Type V Distribution



Type V distribution forms the symmetrical round pattern that allows the light to have the same intensity at all angles. Primarily used in parking lot interiors, crossroads, and roadway centers.

Performance Data

Model	ССТ	System Level Power	Delivered Lumens	Efficacy	L70 Calculate Life	L85 Calculate Life
	3000K	96W	12,900L	135 LPW	142,000 Hours	65,000 Hours
100W	4000K	96W	12,970L	135 LPW	142,000 Hours	65,000 Hours
	5000K	96W	13,090L	136 LPW	142,000 Hours	65,000 Hours
	3000K	114W	14,700L	129 LPW	142,000 Hours	65,000 Hours
120W	4000K	114W	14,760L	130 LPW	142,000 Hours	65,000 Hours
	5000K	114W	15,100L	132 LPW	142,000 Hours	65,000 Hours
	3000K	138W	17,850L	129 LPW	142,000 Hours	65,000 Hours
150W	4000K	138W	17,980L	130 LPW	142,000 Hours	65,000 Hours
	5000K	138W	18,140L	131 LPW	142,000 Hours	65,000 Hours
	3000K	194W	26,020L	134 LPW	152,000 Hours	70,000 Hours
200W	4000K	194W	26,140L	135 LPW	152,000 Hours	70,000 Hours
	5000K	194W	26,370L	136 LPW	152,000 Hours	70,000 Hours
	3000K	231W	30,170L	131 LPW	142,000 Hours	65,000 Hours
250W	4000K	231W	30,310L	131 LPW	142,000 Hours	65,000 Hours
	5000K	231W	30,580L	132 LPW	142,000 Hours	65,000 Hours
	3000K	286W	37,120L	130 LPW	128,000 Hours	58,000 Hours
300W	4000K	286W	37,400L	131 LPW	128,000 Hours	58,000 Hours
	5000K	286W	37,980L	133 LPW	128,000 Hours	58,000 Hours

DoradoXLE **Outdoor LED Area/Site Luminaire**



DLL127-1.5-JU⁴ - 120-277V Electronic Locking Type Photocontrol DLL347-1.5-JU⁴ - 347V Electronic Locking Type Photocontrol DLL480-1.5-JU ⁴ - 480V Electronic Locking Type Photocontrol

Overview

Specifications • ANSI C136.10

RoHS compliant.

standards.

20kV/10kA.

.

With a design life of 20+ years and superior in-rush current and surge-protection features, the DLL supports extended life and low maintenance benefits associated with outdoor LED fixtures.

· UL listed to U.S. and Canadian safety

Key Features

- · Dusk to dawn lighting control.
- · Designed to last 20+ years.
- · LED inrush protection with TRIAC assisted relay. Double thick enclosure and lens with additional . UV inhibitor.
- · High temperature base plastic tested to 140°C.

· Operating Levels: Turn-on at 1.5 FC and

Operating temperature: -40°C to +70°C

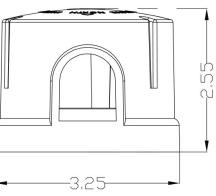
turn-off at 2.25 FC (On:Off ration of 1:1.5).

(-40°F to +158°F). Surge rated in excess of ANSI C136.10 to Average power consumption: <0.5W @ 120V













QDXLE INSTALLATION INSTRUCTIONS & WIRING DIAGRAMS



The installation must only be performed by a licensed electrician.

To prevent death, injury or damage to property, this product must be installed in accordance to National Electrical Code (NFPA70) in the US or Canadian Electrical Code (CSA22.1) in Canada.

Disconnect power before installing the product or servicing it.

Wait until fixture has cooled down before installing or servicing the fixture.

Water in the fixture voids warranty.

MIN. 90°C SUPPLY CONDUCTORS

Read and follow installation instructions. Improper installation will void warranty.

- 1 Turn off power to the light pole at circuit breaker. ASSEMBLY PROCESS
- Unbox the QDXLE1 from the packaging.
- B Determine the type of mount, Arm Mount, Slip Fitter, or Trunnion.





Updated 3/25/19 40-000101_IIS



LED Thermoplastic **Exit Combo**

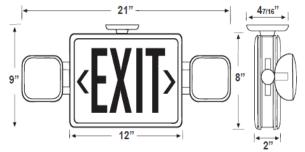


Combining LED exit illumination with reliable LED lamp heads, this attractive low-profile design offers maintenance-free, long life dependable service. Easily mounts above doors and in restricted spaces to fit any application.

FEATURES

- Easy to install, snap together design
- Suitable for damp location
- Rugged, injection-molded UL94 V-0 flame retardant, high-temperature thermoplastic housing
- Universal style includes 2 face plates, a back plate and mounting canopy
- LED combo exit where each of the lamp heads contain 12 long lasting, efficient, ultra-bright white LEDs
- Charge rate/power "ON" LED indicator light with test button
- Low voltage disconnect eliminates deep discharge
- Brown-out, short circuit and voltage surge protection
- UL recognized maintenance-free NiCad battery
- Universal J-Box mounting system Ceiling, wall or end mount
- UL listed 90 minute emergency run time, 24 hour recharge time
- Constant, uniform illumination by long-life, high intensity, red or green LEDs
- Overcharge protection
- Fully-illuminated 6" characters with 3/4" stroke
- Optional Self Test/Self Diagnostics (SDT) available
- Remote capable- up to 2 CLED remote heads
- Chevron-style, universal arrow knockouts
- 120/277V dual primary, 60Hz input
- Standard finishes: Black and white

DIMENSIONS



WARRANTY

Any component that fails due to manufacturers defect is guaranteed for 3 years with a separate 5 year pro-rated warranty on the battery. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

ORDERING INFORMATION

Series	
04-CRW2-LED	
04-CGW2-LED	

Style 2 = UNIVERSAL

W = WHITELED Lamps

Type

Options SDT = SELF TEST / DIAGNOSTICS **RC = REMOTE CAPABILITY**

Finish

B = BLACK



LED Emergency Light



HOUSING

 Injection-molded, engineering grade, 5VA flame retardant, high-impact resistant, thermoplastic in white or black finish.

OPTIONS

- SDT: Self-diagnostic feature performs monthly, biannual, and annual tests to ensure reliable operation and meet electrical and life safety codes.
- HL: 12-LEDs per head provide increased center-to-center spacing.
- SPV: UL Listed for special voltage option.

WARRANTY / LISTING

- Five year warranty on all electronics and housing. Battery pro rated for five years.
- Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes.
- UL Listed for damp locations (0°C 50°C).

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ILLUMINATION

- Long lasting, efficient, ultra bright white LED lamp heads.
- 1W (8 LEDs x 0.125) per head.
- High performance chrome-plated metallized reflector and plastic lens for optimal light distribution.
- Adjustable LED lamp heads provides optimal center-tocenter spacing. High-lumen option available for increased center-to-center spacing.

ELECTRICAL

- Dual 120/277 voltage standard. Optional multi-tap 208/220/240 voltage available.
- Remote capacity standard.
- Charge rate/power "ON" LED indicator light and push-to-test switch for mandated code compliance testing.
- 3.6V long life, maintenance-free, rechargeable NiCd battery.
- Internal solid-state transfer switch automatically connects the internal battery to LED lamp heads for minimum 90-minute emergency illumination.
- Fully automatic solid-state, two rate charger initiates battery charging to recharge a discharged battery in 24 hours.

MOUNTING

- Surface mount via easy connect back plate, which fits most standard junction boxes and snaps into place making internal electrical connections.
- Top and side knockout for conduit applications.
- Suitable for wall or ceiling mount.

ORDERING INFORMATION

Î			MODEL	HOUSING COLOR		OPTIONS	_
4%	·	3 */**	04-EL1-LED	White	SDT S	Self-Diagnostics	_
				B Black	HL	High-Lumen	
1					SPV	208/220/240 volt, 50/60 Hz	1
	< <u>−10%</u>	<i>ĭ</i>					

DIMENSIONS



LED Remote Heads

Indoor/ Outdoor Weatherproof



ILLUMINATION

- Long lasting, efficient ultra-bright white LED lamp heads.
- High-performance chrome-plated metalized reflector and plastic lens (indoor applications) or glass lens (outdoor applications) for optimal light distribution.
- Adjustable LED lamp heads increases center-to-center spacing with 8 LEDs in each lamp head.

ELECTRICAL

 Powered from low voltage power source with low voltage wiring (not provided).

MOUNTING

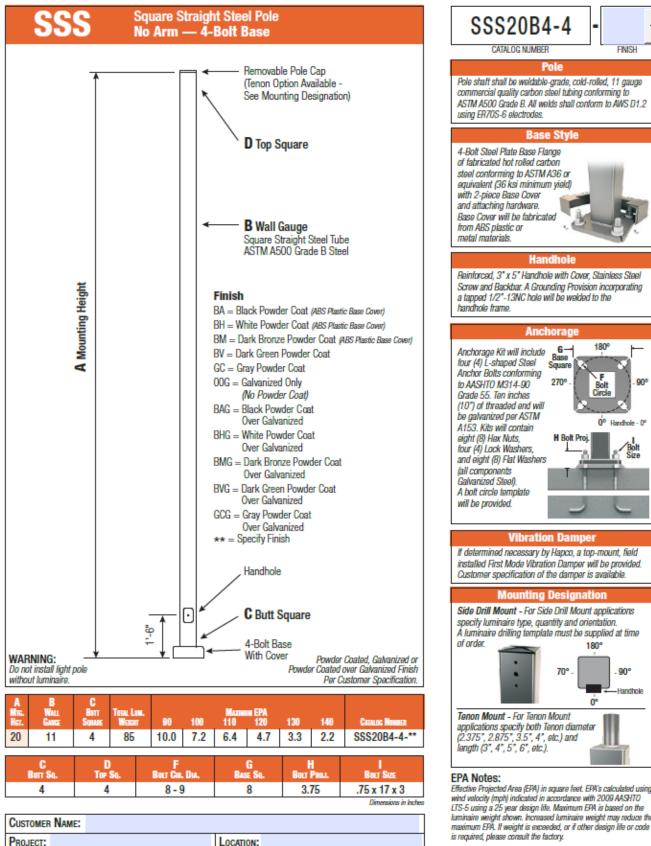
- Universal mounting base mounts to single-gang switch box.
- Distance of maximum run is determined by system voltage, wire gauge and total maximum wattage on the run.
- Suitable for wall or ceiling mount.

HOUSING

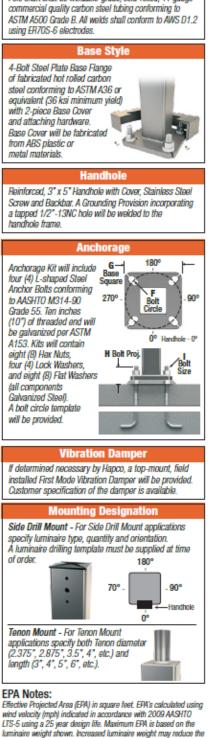
- Indoor application remote heads are injection-molded, engineering-grade, 5VA flame retardant, high-impact resistant, thermoplastic in white or black finish.
- Outdoor application remote heads are die-cast aluminum, Sealed and gasketed in gray or black finish.

WARRANTY/LISTING

- Five year warranty on electronics and housing.
- UL listed with approved Best Lighting Products.
- Meets UL924, NFPA 101 Life Safety Code, NEC,OSHA, Local and State Codes.
- \sim All voltages are available for INDOOR and OUTDOOR applications
- ~ 3.6 Volt (1 Watt) for Emergency Lights Call for pricing
- ~ 9.6 Volt (1 Watt) for Exit Emergency Combos Call for pricing
- ~ SDT available Call for pricing



NOTES:



CATALOG NUMBER

EINISH

Always the Right Choice!

QUANTITY: