OWNER/DEVELOPER

3701 LINCOLN, LLC

6905 Telegraph Rd. Suite 200 Bloomfield Hills, MI 48301

Contact: Mr. Tim Loughrin Ph: 248-282-1428

Mr. Jason Jones Ph: 313-575-6835

Mr. George Roberts Ph: 248-302-8662

LANDSCAPE ARCHITECT

LAND DESIGN STUDIO Birmingham, MI 48009 Contact: Tad Krear Ph. 248-594-3220

CIVIL ENGINEER

NOWAK & FRAUS ENGINEERS 46777 Woodward Ave. Pontiac, MI 48342-5032 Tel. (248) 332-7931 Fax. (248) 332-8257 CONTACT: Brad Brickel, P.E.

ARCHITECT

4545 ARCHITECTURE 3011 W. Grand River Blvd.

Suite 400 Detroit, MI 48202 Tel. (248) 672-0864 **CONTACT: Joshua Maddox**

750 Forest Ave. Suite 101

LEGAL DESCRIPTION LEGAL DESCRIPTION - PARCEL A

TAX ITEM NO. 005779/WARD 06

TAX ITEM NO. 005780/WARD 06

TAX ITEM NO. 005783/WARD 06

Tim Flintoff

PER TITLE COMMITMENT LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MI, DESCRIBED AS

LOT 45 AND THE NORTH 20 FEET OF LOT 46, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PROPERTY ADDRESS: 3713 LINCOLN

SOUTH 30 FEET OF LOT 46, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE WAYNE COUNTY RECORDS.
PROPERTY ADDRESS: 3707 LINCOLN

LOT 47, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY PROPERTY ADDRESS: 3701 LINCOLN

TAX ITEM NO. 005780/WARD 06 LOT 48, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS

RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY PROPERTY ADDRESS: 3697 LINCOLN TAX ITEM NO. 005782/WARD 06

LOT 49, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS PROPERTY ADDRESS: 3689 LINCOLN

LEGAL DESCRIPTION - PARCEL B PER TITLE COMMITMENT

LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MI, DESCRIBED AS

LOT 85, INCLUDING 1/2 OF ADJACENT VACATED ALLEY, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY RECORDS. PROPERTY ADDRESS: 3915 LINCOLN TAX ITEM NO. 005777/WARD 06

LOT 86, INCLUDING 1/2 OF ADJACENT VACATED ALLEY, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER OF PLATS, PAGE 308, WAYNE COUNTY RECORDS. PROPERTY ADDRESS: 3907 LINCOLN TAX ITEM NO. 005778/WARD 06

LEGAL DESCRIPTION - PARCEL C

PER TITLE COMMITMENT LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MI, DESCRIBED AS

LOTS 33 THROUGH 43, BOTH INCLUSIVE, INCLUDING THE NORTHERLY 8.00 FEET OF VACATED BRAINARD STREET ADJACENT THERETO, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY

PROPERTY ADDRESS: 3664 TRUMBULL TAX ITEM NO. 005913-5/WARD 06. AS TO NORTH 8 FEET OF VACATED BRAINARD STREET AND LOTS 33

THROUGH 39 AND THE SOUTH 37 FEET OF LOT 40 OF PARCEL 8 PROPERTY ADDRESS: 3690 TRUMBULL TAX ITEM NO. 005916/WARD 06, AS TO NORTH 13 FEET OF LOT 40, ALL OF LOT 41 AND THE SOUTH 2 FEET OF LOT 42 OF PARCEL 8

PROPERTY ADDRESS: 3700 TRUMBULL TAX ITEM NO. 005917/WARD 06, AS TO NORTH 48 FEET OF LOT 42 OF PARCEL 8

PROPERTY ADDRESS: 3708 TRUMBULL TAX ITEM NO. 005918/WARD 06, AS TO LOT 43 OF PARCEL 8

City of Detroit, Wayne County, Michigan ENGINEERING CONSTRUCTION DOCUMENTS Prepared For 3701 Lincoln, LLC

PART OF THE NW1/4 OF SECTION 3, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN



Project Name

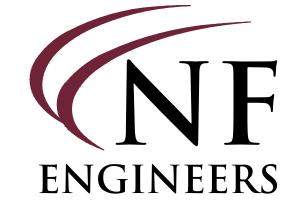
Scripps District 3700 Trumbull

SHEET INDEX

- C00 Cover Sheet
- C01 Boundary / Topographic / Tree Survey/ Site Analysis
- CO2 Survey Notes / Tree List
- C03 Demolition Plan
- CO4 Stringer Dimension Plan
- CO4.1 Foundation Exhibit Plan (Parcel A)
- CO4.2 Foundation Exhibit Plan (Parcel B)
- CO4.3 Foundation Exhibit Plan (Parcel C) CO5 Paving & Grading Plan (1 of 2)
- CO5A Paving & Grading Plan (2 of 2)
- C06 Storm Drainage Plan (1 of 2)
- CO6A Storm Drainage Plan (2 of 2)
- CO7 Sanitary Sewer & Water Main Plan (1 of 2) CO7A Sanitary Sewer & Water Main Plan (2 of 2)
- CO8 Storm Drainage Profile Plan
- C09 Storm Drainage Profile Plan
- C10 Storm Drainage Profile Plan
- C11 Storm Calculations Plan
- C12 Storm Water Management Plan
- C13 Detention System Detail Plan
- C14 Post-Construction Storm Water Management Plan
- C15 Additional Details
- C16 Soil Erosion/ Drainage Area Plan
- C17 Soil Boring Plan
- C18 Soil Boring Logs
- C19 City of Detroit Standard Details
- C20 City of Detroit Standard Details
- C21 City of Detroit Standard Details
- C22 City of Detroit Standard Details
- C23 City of Detroit Standard Details
- Overall Landscape Plan
- Central Amenity Plan & Precedents
- Landscape Enlargement Details
- Landscape Details
- A1 Foundation Plan

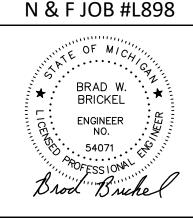
REVISIONS:

- 08-27-21 ISSUED FOR ENGINEERING REVIEW
- 09-20-21 REVISED GRADING 12-01-21 REVISED PER CITY 01-15-22 REVISED PER CITY



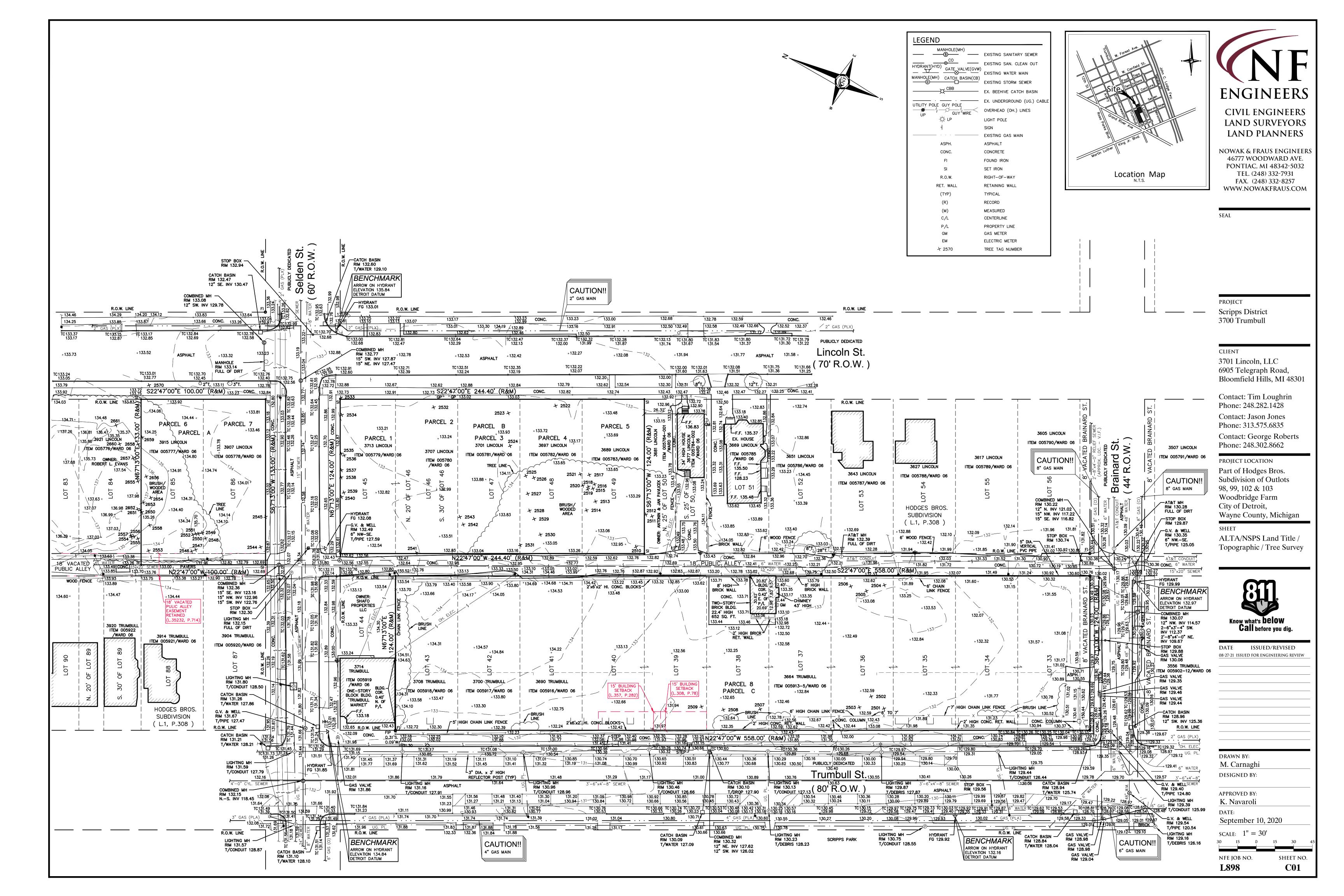






CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



Tree Inventory List

Northern Catalpa

Catalpa speciosa

Job Number: Job Location: 3700 Trumbull Ave., Detroit Sept. 20, 2020

Forestry Registration No. Performed By: Alexander Kriebel

Condition Description Notes: "Good" - no observed structural defects*

"Fair" - minor structural defects, marginal form, some insect activity noted* "Poor" - major structural defects, poor form, insect infested*

uctural defects may include decayed wood, cracks, root problems, weak branch unions

	may include decayed wood, cra architecture, dead/failed branch		ich union	s			
cankers, poor tree t	•	es due to various causes.					
<u>Tree #</u>	<u>Botanical Name</u>	<u>Common Name</u>	<u>Dia.</u>	<u>Type</u>	<u>Other Dia.</u>	<u>Condition</u>	<u>Comments</u>
2501	Picea pungens	Colorado Blue Spruce	13			Fair	Canopy Die-Back, Competition
2502	Picea pungens	Colorado Blue Spruce	14			Fair	Canopy Die-Back, Competition
2503	Picea pungens	Colorado Blue Spruce	16			Fair	Canopy Die-Back, Competition
2504	Pinus strobus	Eastern White Pine	13			Good	
2505	Pinus strobus	Eastern White Pine	11			Fair	Winding Lead, Competition
2506	Pinus strobus	Eastern White Pine	10			Good	
2507	Picea pungens	Colorado Blue Spruce	18			Fair	Minor Lean, Canopy Die-Back, Competition
2508	Picea abies	Norway Spruce	18			Good	, 10 , 1
2509	Salix amygdaloides	Peachleaf Willow	11	Twin	10	Fair	Minor Leans, Competing Leads, Competition
2510	Populus deltoides	Eastern Cottonwood	18	2 7		Poor	Rotting Canker, Minor Lean, Competition
2511	Ulmus rubra	Slippery Elm	7			Fair	Competition, Bent Lead, Canopy Die-Back, Disease
2512				Multiple Stemmed	16 12 12 12 12 17		· · · · · · · · · · · · · · · · · · ·
	Morus alba	White Mulberry	16	Multiple Stellined	16, 13, 13, 13, 13, 12	Poor	Rotting Seam, Dead and Dying Leads, Canopy Die-Back, Competition, Large Rotting Cankers
2513	Ulmus pumila	Siberian Elm	8			Poor	Competition, Major Canopy Die-Back, Lacks Upper Canopy
2514	Ulmus rubra	Slippery Elm	6			Fair	Winding Lead, Canopy Die-Back, Competition
2515	Ulmus pumila	Siberian Elm	14			Fair	Competition, Missing Lead, Canopy Die-Back
2516	Ulmus rubra	Slippery Elm	10			Fair	Bent Leads, Competing Leads, Competition, Canopy Die-Back
2517	Ulmus pumila	Siberian Elm	8			Poor	Competition, Lacks Upper Canopy, Canopy Die-Back
2518	Ulmus pumila	Siberian Elm	7			Poor	Canopy Die-Back, Competition
2519	Ulmus pumila	Siberian Elm	9			Fair	Bent Lead, Canopy Die-Back, Competition
2520	Ulmus rubra	Slippery Elm	7			Fair	Bent Lead, Canopy Die-Back, Competition, Minor Lean
2521	Ulmus rubra	Slippery Elm	6	Multiple Stemmed	6, 5, 5, 4, 3	Fair	Competing Leads, Minor Leans, Competition, Dead Tree Leaning On It
2522	Morus alba	White Mulberry	14	Twin	14	Fair	Canopy Die-Back, Competition
2523	Fraxinus pennsylvanica	Green Ash	7	Multiple Stemmed 7	(Dead), 6, 5, 5 (Dead)		Competing Leads, Insect Activity, Dead Lead, Canopy Die-Back
2524	Ulmus pumila	Siberian Elm	25	Transpie Stemmen	(2011), 5, 2, 2 (2011)	Fair	Canopy Die-Back, Insect Activity, Inosculation
2525	Ulmus pumila	Siberian Elm	12			Fair	Canopy Die-Back, Competition, Minor Lean
2526	Ulmus pumila	Siberian Elm	7	Twin	5	Fair	Competition, Canopy Die-Back, Competing Leads
	•		9	1 WIII	3		
2527	Ulmus pumila	Siberian Elm		on •.	12	Fair	Canopy Die-Back, Competition
2528	Acer negundo	Boxelder Maple	21	Twin	12	Fair	Rotting Canker At Base, Competing Leads, Minor Leans, Canopy Die-Back, Competition
2529	Ulmus rubra	Slippery Elm	9		_	Fair	Canopy Die-Back, Competition
2530	Ulmus rubra	Slippery Elm	9	Twin	7	Fair	Rotting Canker At Base, Competing Leads, Competition
2531	Ailanthus altissima	Tree Of Heaven	13			Fair	Canopy Die-Back, Competition
2532	Ulmus pumila	Siberian Elm	24			Poor	Major Canopy Die-Back, Minor Lean
2533	Ailanthus altissima	Tree Of Heaven	6			Fair	Winding Lead, Competition
2534	Ulmus pumila	Siberian Elm	15			Fair	Minor Lean, Competing Leads, Canopy Die-Back
2535	Catalpa speciosa	Northern Catalpa	7	Twin	4	Fair	Burl At Base, Poor Seaming, Competition, Canopy Die-Back
2536	Ulmus pumila	Siberian Elm	7	Multiple Stemmed	4, 2	Poor	A-Typical Growth Structure, Poor Seaming, Competition, Canopy Die-Back
2537	Ulmus pumila	Siberian Elm	10	Multiple Stemmed	8, 7, 3	Fair	Poor Seaming, Canopy Die-Back, Competition, Competing Leads
2538	Ulmus americana	American Elm	8	•		Fair	Competition
2539	Prunus avium	Mazzard Cherry	10	Multiple Stemmed	9, 4	Fair	Competing Leads, Pruning, Competition, Canopy Die-Back
2540	Malus sp.	Domestic Apple	8	u	-, -	Fair	Canopy Die-Back, Minor Lean, Competition
2541	Acer negundo	Boxelder Maple	20	Multiple Stemmed	20	Poor	Major Canopy Die-Back, Minor Leans, Competing Leads
2542	Acer negundo	Boxelder Maple	20	Wintiple Stellined	20	Poor	Nearly Dead, Major Canopy Die-Back, Insect Activity, Missing Bark, Missing Lead
2542 2543	Ulmus rubra	Slippery Elm	12	Multiple Stemmed	10, 4	Fair	Competing Leads, Minor Leans, Competition
	Ailanthus altissima	** *		Wruitipie Steilineu	10, 4		1 0
2544		Tree Of Heaven	10	T	22	Poor	A-Typical Growth Structure, Canopy Die-Back, Canker, Competition
2545	Morus alba	White Mulberry	36	Twin	22	Fair	Competing Leads, Minor Leans
2546	Acer negundo	Boxelder Maple	8			Fair	Winding Lead, Canopy Die-Back, Competition
2547	Acer negundo	Boxelder Maple	10			Fair	Winding Lead, Canopy Die-Back, Competition
2548	Acer negundo	Boxelder Maple	6			Fair	Moderate Lean, Competition, Canopy Die-Back
2549	Acer negundo	Boxelder Maple	6	Twin	4	Poor	Heavy Lean, Canopy Die-Back, Competition, Poor Seaming
2550	Acer negundo	Boxelder Maple	8			Poor	Heavy Lean, Canopy Die-Back, Competition
2551	Acer negundo	Boxelder Maple	6			Fair	Heavy Lean, Canopy Die-Back, Competition
2552	Acer negundo	Boxelder Maple	12			Fair	Moderate Lean, Competition, Canopy Die-Back
2553	Acer negundo	Boxelder Maple	14	Twin	11	Fair	Competing Leads, Minor Leans, Competition, Canopy Die-Back
2554	Acer negundo	Boxelder Maple	8			Poor	Heavy Lean, Canopy Die-Back, Competition
2555	Prunus avium	Mazzard Cherry	9			Fair	Canopy Die-Back, Competition
2556	Ulmus americana	American Elm	7			Fair	Canopy Die-Back, Competition, Minor Lean
2557	Prunus avium	Mazzard Cherry	6			Poor	Moderate Lean, Competition, Canopy Die-Back
2558	Acer negundo	Boxelder Maple	9	Twin	4	Poor	Nearly Dead, Major Canopy Die-Back, Insect Activity, Missing Bark, Missing Lead
2570	Acer negundo	Boxelder Maple	16	Multiple Stemmed	10, 9	Fair	Moderate Leans, Competition, Poor Seaming, Overhangs Street ROW
2650	Prunus avium	Mazzard Cherry	9	Transpie Stemmen	,-	Fair	Canopy Die-Back, Competition, Minor Lean
2651	Prunus avium	Mazzard Cherry	6			Fair	Winding Lead, Canopy Die-Back, Competition
2652		Boxelder Maple	10			Poor	
	Acer negundo			T	15		Moderate Lean, Competition, Major Canopy Die-Back
2653	Acer negundo	Boxelder Maple	18	Twin	15	Fair	Canopy Die-Back, Competition, Competing Leads, Minor Leans
2654	Acer negundo	Boxelder Maple	11	Multiple Stemmed	10, 4	Fair	Heavy Leans, Canopy Die-Back, Competition, Competing Leads
2655	Acer negundo	Boxelder Maple	10	Multiple Stemmed	7, 6, 6	Fair	Heavy Leans, Canopy Die-Back, Competition, Competing Leads
2656	Ulmus rubra	Slippery Elm	7			Poor	Heavy Lean, Canopy Die-Back, Competition, Bent Lead
2657	Ailanthus altissima	Tree Of Heaven	10	Twin	9	Fair	Poor Seaming, Competing Leads, Competition
2658	Ailanthus altissima	Tree Of Heaven	6			Poor	Winding Lead, Rotting Cankers, Competition, Canopy Die-Back
2659	Acer negundo	Boxelder Maple	7			Poor	Major Canopy Die-Back, Moderate Lean, Competition
2660	Ulmus rubra	Slippery Elm	6	Multiple Stemmed	5, 4, 3, 2	Fair	Competing Leads, Minor Leans, Competition
2661	Catalna speciosa	Northern Catalna	10	Twin	8	Poor	Heavy Lean, Canony Die-Back, Rot At Base

Poor Heavy Lean, Canopy Die-Back, Rot At Base

ALTA SURVEY NOTES

DUMP, SUMP OR SANITARY LANDFILL.

THERE IS NO VISIBLE EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.

THERE IS NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES AND THERE IS NO EVIDENCE OF RECENT STREET OR

SIDEWALK CONSTRUCTION OR REPAIR. THERE IS NO VISIBLE EVIDENCE OF SITE USE AS A SOLID WASTE

THERE IS NO VISIBLE EVIDENCE OF ANY WETLAND AREAS. LOCATION OF UTILITIES EXISTING ON OR SERVING THE PROPERTY AS DETERMINED BY: OBSERVED EVIDENCE OR EVIDENCE FROM

THE SUBJECT PROPERTY HAS ACCESS TO TRUMBULL STREET. LINCOLN STREET, SELDEN STREET AND BRAINARD STREET, ALL

PLANS REQUESTED BY THE SURVEYOR AND OBTAINED FROM

DATUM NOTE

UTILITY COMPANIES.

ALL ELEVATIONS SHOWN HEREON ARE ON THE CITY OF DETROIT DATUM. AN ELEVATION OF 479.332 MUST BE ADDED TO THE CITY OF DETROIT DATUM TO ACHIEVE THE N.A.V.D. 88 DATUM (CORS).

BASIS OF BEARING NOTE

ALL BEARINGS ARE IN RELATION TO THE PREVIOUSLY ESTABLISHED EASTERLY RIGHT-OF-WAY LINE OF TRUMBULL AVENUE (PLATTED AS NINTH AVENUE) OF HODGES BROS. SUBDIVISION AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY RECORDS. (N.22°47'W.)

FLOOD HAZARD NOTE

THE PROPERTY DESCRIBED ON THIS SURVEY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY; THE PROPERTY LIES WITHIN ZONE X OF THE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 26163C0280E BEARING AN EFFECTIVE DATE OF 2-2-2012.

MISS DIG / UTILITY DISCLAIMER NOTE

A MISS DIG TICKET NUMBER A002310526, PURSUANT TO MICHIGAN PUBLIC ACT 174 WAS ENTERED FOR THE SURVEYED PROPERTY. DUE TO THE EXTENDED REPORTING PERIOD FOR UNDERGROUND FACILITY OWNERS TO PROVIDE THEIR RECORDS, THE SURVEY MAY NOT REFLECT ALL THE UTILITIES AT THE TIME THE SURVEY WAS ISSUED ON SEPTEMBER 17, 2020. THE SURVEY ONLY REFLECTS THOSE LITILITIES WHICH COLLD BE OBSERVED BY THE SURVEYOR IN THE FIELD OR AS DEPICTED BY THE UTILITY COMPANY RECORDS FURNISH PRIOR TO THE DATE THIS SURVEY WAS ISSUED. THE CLIENT AND/OR THEIR AUTHORIZED AGENT SHALL VERIFY WITH THE FACILITY OWNERS AND/OR THEIR AUTHORIZED AGENTS, THE COMPLETENESS AND EXACTNESS OF THE UTILITIES LOCATION.

POWER LINE NOTE

THE MEASUREMENTS WERE TAKEN ON AUG. 28, 2020. PLEASE NOTE THE AMOUNT OF SAG IN THE LINE IS NOT A CONSTANT. POLE MOVEMENT, WIND, ICE AND CONDUCTOR LOAD MAY EFFECT THE AMOUNT OF SAG IN THE LINE. CLIENT SHALL CONSULT WITH THE UTILITY COMPANY TO INSURE PROPER SAFETY CLEARANCES ARE BEING MAINTAINED TO ANY STRUCTURE.

TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

DTE DISCLAIMER NOTE

PLEASE NOTE THAT DTE HAS NEW REGULATIONS THAT MAY IMPACT DEVELOPMENT OUTSIDE THEIR EASEMENT OR THE PUBLIC RIGHT OF WAY. CLIENT SHALL CONTACT DTE TO DETERMINE THE "NEW STRUCTURES AND POWER LINE" REQUIREMENTS AS THEY MAY APPLY TO ANY FUTURE BUILDING OR RENOVATION OF A STRUCTURE. DTE ENERGY CAN BE CONTACTED AT 800-477-4747

COVID-19 PANDEMIC CONDITION

DUE TO THE UNPRECEDENTED COVID-19 PANDEMIC CONDITION AND RESTRICTIONS THE STANDARD DATA WHICH IS OBTAINED FROM MISS DIG/CALL 811 HAS BEEN RESTRICTED TO CRITICAL INFRASTRUCTURE ONLY. NFE WILL MAKE EVERY EFFORT TO OBTAIN CURRENT REFERENCE DATA FROM THE GOVERNING AGENCIES; HOWEVER, THIS DATA MAY BE PARTIAL OR INCOMPLETE. NFE WILL ISSUE THIS SURVEY WITH THE BEST AVAILABLE INFORMATION FROM OUR FIELD SURVEY AND OTHER AVAILABLE REFERENCE DATA. NFE WILL NOT BE RESPONSIBLE FOR INCOMPLETE OR PARTIAL DATA PROVIDED BY THIRD PARTY FACILITY OWNERS.

ALL SURVEYS BEING UTILIZED FOR DESIGN PURPOSES BY OTHERS; IT WILL BE THE CLIENT'S OBLIGATION TO UPDATE THE UTILITY INFORMATION AS IT BECOMES AVAILABLE. NFE IS NOT RESPONSIBLE FOR BURIED UTILITIES FOR WHICH PLANS WERE NOT FURNISHED OR CANNOT BE OBSERVED IN THE FIELD.

LEGAL DESCRIPTION - PARCEL A PER TITLE COMMITMENT

TAX ITEM NO. 005779/WARD 06

TAX ITEM NO. 005780/WARD 06

LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MI, DESCRIBED AS

LOT 45 AND THE NORTH 20 FEET OF LOT 46. OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY RECORDS. PROPERTY ADDRESS: 3713 LINCOLN

SOUTH 30 FEET OF LOT 46, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY RECORDS.
PROPERTY ADDRESS: 3707 LINCOLN

LOT 47, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY PROPERTY ADDRESS: 3701 LINCOLN TAX ITEM NO. 005780/WARD 06

LOT 48, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY PROPERTY ADDRESS: 3697 LINCOLN TAX ITEM NO. 005782/WARD 06

LOT 49. OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 03 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY PROPERTY ADDRESS: 3689 LINCOLN TAX ITEM NO. 005783/WARD 06

LEGAL DESCRIPTION - PARCEL B

PER TITLE COMMITMENT LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MI, DESCRIBED AS FOLLOWS:

PARCEL 6: LOT 85, INCLUDING 1/2 OF ADJACENT VACATED ALLEY, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY RECORDS. PROPERTY ADDRESS: 3915 LINCOLN TAX ITEM NO. 005777/WARD 06

LOT 86, INCLUDING 1/2 OF ADJACENT VACATED ALLEY, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS. PAGE 308, WAYNE COUNTY RECORDS. PROPERTY ADDRESS: 3907 LINCOLN TAX ITEM NO. 005778/WARD 06

LEGAL DESCRIPTION - PARCEL C PER TITLE COMMITMENT

LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MI, DESCRIBED AS

LOTS 33 THROUGH 43, BOTH INCLUSIVE, INCLUDING THE NORTHERLY 8.00 FEET OF VACATED BRAINARD STREET ADJACENT THERETO, OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 308, WAYNE COUNTY

PROPERTY ADDRESS: 3664 TRUMBULL TAX ITEM NO. 005913-5/WARD 06. AS TO NORTH 8 FEET OF VACATED BRAINARD STREET AND LOTS 33 THROUGH 39 AND THE SOUTH 37 FEET OF LOT 40 OF PARCEL 8

PROPERTY ADDRESS: 3690 TRUMBULL TAX ITEM NO. 005916/WARD 06, AS TO NORTH 13 FEET OF LOT 40, ALL OF LOT 41 AND THE SOUTH 2 FEET OF LOT 42 OF PARCEL 8

PROPERTY ADDRESS: 3700 TRUMBULL TAX ITEM NO. 005917/WARD 06, AS TO NORTH 48 FEET OF LOT 42 OF PARCEL 8

PROPERTY ADDRESS: 3708 TRUMBULL TAX ITEM NO. 005918/WARD 06, AS TO LOT 43 OF PARCEL 8

SURVEY DATA

7,985.60 SQ. FT. OR 0.183 ACRES (3713 LINCOLN) 3,720.00 SQ. FT. OR 0.085 ACRES (3707 LINCOLN) 6,200.00 SQ. FT. OR 0.142 ACRES (3701 LINCOLN) PARCEL 4: 6,200.00 SQ. FT. OR 0.142 ACRES (3697 LINCOLN) PARCEL 5: 6,200.00 SQ. FT. OR 0.142 ACRES (3689 LINCOLN) PARCEL 6: 6.650.00 SO ET OR 0.153 ACRES (3915 LINCOLN) 6,650.00 SQ. FT. OR 0.153 ACRES (3907 LINCOLN) PARCEL 8: 69,192.00 SQ. FT. OR 1.588 ACRES (TRUMBULL)

ZONED: R3-H, LOW DENSITY RESIDENTIAL DISTRICT - HISTORIC DISTRICT

A SURVEYOR CANNOT MAKE A CERTIFICATION ON THE BASIS OF AN INTERPRETATION OR OPINION OF ANOTHER PARTY. A ZONING ENDORSEMENT LETTER SHOULD BE OBTAINED FROM THE CITY OF DETROIT TO INSURE CONFORMITY AS WELL AS MAKE A FINAL DETERMINATION OF THE REQUIRED BUILDING SETBACK REQUIREMENTS.

CERTIFICATE OF SURVEY

-3701 Lincoln LLC, A MICHIGAN LIMITED LIABILITY COMPANY -THE DETROIT LAND BANK AUTHORITY, AS TO PARCELS 1, 2, 3, 4, 5. 6 AND 7 -CIVIC TRUMBULL HOLDINGS, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, AS TO PARCEL 8 -FIRST AMERICAN TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDE ITEMS 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 11(a), 13, 14, 16, 17, 18 AND 19 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON AUGUST 28, 2020.

5-26-2021





TITLE REPORT NOTES

REFERENCE FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NUMBER: 897505, EFFECTIVE DATE: MARCH 31, 2021, SCHEDULE B - PART II, EXCEPTIONS:

EXCEPTIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 28, 29, 30, 31, 32, 33 AND 34 REFER TO THE OWNERSHIP OF THE

15. COVENANTS, CONDITIONS, RESTRICTIONS AND OTHER PROVISIONS BUT OMITTING RESTRICTIONS, IF ANY, BASED ON RACE, COLOR, 37 FEET OF LOT 39 OF PARCEL 8 (SAID SETBACK IS PLOTTED PLOTTED HEREON) AND LIBER 19140, PAGE 154, REGISTER NO.

16. OIL, GAS, MINERAL, AND ABORIGINAL ANTIQUITIES RESERVED BY THE STATE OF MICHIGAN, AND THE TERMS, COVENANTS AND PROVISIONS CONTAINED IN INSTRUMENT RECORDED IN LIBER 17899, PAGE 526, REGISTER NO. F655017, AS TO PARCEL 2.

THIS EXCEPTION DOES NOT CONSTITUTE A STATEMENT AS TO THE OWNERSHIP OF THIS INTEREST OR RIGHT. THERE MAY BE LEASES, GRANTS, EXCEPTIONS OR RESERVATIONS OF SUCH INTERESTS THAT

17. OIL, GAS, MINERAL, AND ABORIGINAL ANTIQUITIES RESERVED BY THE STATE OF MICHIGAN, AND THE TERMS, COVENANTS AND PROVISIONS CONTAINED IN INSTRUMENT RECORDED IN LIBER 19969, PAGE 813, REGISTER NO. G258880, AS TO PARCEL 1. (NOT PLOTTABLE)

THIS EXCEPTION DOES NOT CONSTITUTE A STATEMENT AS TO THE OWNERSHIP OF THIS INTEREST OR RIGHT. THERE MAY BE LEASES, GRANTS, EXCEPTIONS OR RESERVATIONS OF SUCH INTERESTS THAT

18. OIL, GAS, MINERAL, AND ABORIGINAL ANTIQUITIES RESERVED BY THE STATE OF MICHIGAN, AND THE TERMS, COVENANTS AND PAGE 1, REGISTER NO. G594706, AS TO PARCELS 4.

THIS EXCEPTION DOES NOT CONSTITUTE A STATEMENT AS TO THE OWNERSHIP OF THIS INTEREST OR RIGHT. THERE MAY BE LEASES, GRANTS, EXCEPTIONS OR RESERVATIONS OF SUCH INTERESTS THAT

19. OIL, GAS, MINERAL, AND ABORIGINAL ANTIQUITIES RESERVED BY THE STATE OF MICHIGAN, AND THE TERMS, COVENANTS AND PROVISIONS CONTAINED IN INSTRUMENT RECORDED IN LIBER 22791, PAGE 473, AS TO PARCEL 7. (NOT PLOTTABLE)

THIS EXCEPTION DOES NOT CONSTITUTE A STATEMENT AS TO THE ARE NOT LISTED.

20. OIL, GAS, MINERAL, AND ABORIGINAL ANTIQUITIES RESERVED BY THE STATE OF MICHIGAN, AND THE TERMS, COVENANTS AND PROVISIONS CONTAINED IN INSTRUMENT RECORDED IN LIBER 25057, PAGE 807, AS TO PARCELS 2 AND 3.

21. TERMS AND CONDITIONS CONTAINED IN DECISION AND ORDER BY THE CITY OF DETROIT BOARD OF ZONING APPEALS AS DISCLOSED BY INSTRUMENT RECORDED IN LIBER 23051, PAGE 678, AS TO LOTS 33 THROUGH 41 AND SOUTH 2 FEET OF LOT 42 OF PARCEL 8. (NOT PLOTTABLE)

22. TERMS AND CONDITIONS CONTAINED IN RESOLUTION FOR THE ESTABLISHMENT OF THE WOODBRIDGE HISTORIC DISTRICT AS DISCLOSED BY INSTRUMENT RECORDED IN LIBER 25593, PAGE 903. (NOT PLOTTABLE)

23. TERMS AND CONDITIONS CONTAINED IN AFFIDAVIT OF HISTORIC DESIGNATION RESTRICTION AS DISCLOSED BY INSTRUMENT RECORDED IN LIBER 26668, PAGE 36.

24. EASEMENT FOR PUBLIC UTILITIES OVER THAT PORTION OF LAND INCLUDED IN THE VACATED ALLEY AS EVIDENCED BY INSTRUMENT RECORDED IN LIBER 35232, PAGE 714, AND THE TERMS, CONDITIONS AND RESTRICTIONS CONTAINED THEREIN, AS TO PARCELS 6 AND 7.

26. TERMS AND CONDITIONS CONTAINED IN DECISION AND ORDER BY THE CITY OF DETROIT BOARD OF ZONING APPEALS AS DISCLOSED BY INSTRUMENT RECORDED IN LIBER 54609, PAGE 1118, AS TO PARCELS 1, 2, 3, 4, 5 AND 8. (NOT PLOTTABLE)

AND VACATED PORTION OF BRAINARD STREET, AS TO PARCEL 8.

NOTE

PROPERTY AND/OR ARE NOT PLOTTABLE.

RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN AS CONTAINED IN INSTRUMENT RECORDED IN LIBER 192, PAGE 442, AS TO PARCELS 6 AND 7 (NOT PLOTTABLE), LIBER 192, PAGE 476, AS TO PARCEL 5 (NOT PLOTTABLE), LIBER 308, PAGE 78, AS TO SOUTH HEREON), LIBER 357, PAGE 282, AS TO NORTH 13 FEET OF LOT 39 AND SOUTH 37 FEET OF LOT 40 OF PARCEL 8 (SAID SETBACK IS G13957, AS TO PARCEL 2 (NOT PLOTTABLE).

(NOT PLOTTABLE)

PROVISIONS CONTAINED IN INSTRUMENT RECORDED IN LIBER 21178,

OWNERSHIP OF THIS INTEREST OR RIGHT. THERE MAY BE LEASES. GRANTS, EXCEPTIONS OR RESERVATIONS OF SUCH INTERESTS THAT

(NOT PLOTTABLE)

THIS EXCEPTION DOES NOT CONSTITUTE A STATEMENT AS TO THE OWNERSHIP OF THIS INTEREST OR RIGHT. THERE MAY BE LEASES, GRANTS, EXCEPTIONS OR RESERVATIONS OF SUCH INTERESTS THAT

(PLOTTED HEREON)

25. TERMS, CONDITIONS AND PROVISIONS CONTAINED IN QUIT CLAIM RELEASE OF RESERVATIONS DEED AS DISCLOSED BY INSTRUMENT RECORDED IN LIBER 53520, PAGE 444, WHICH TERMS INCLUDE A PROHIBITION OF SERVERANCE OF OIL, GAS, MINERAL AND OTHER SUBSURFACE RIGHTS AND A REVERSION OF SUCH INTERESTS TO THE STATE OF MICHIGAN IN THE EVENT OF SUCH SERVERANCE, AS TO THE NORTH 48 FEET OF LOT 42 OF PARCEL 8. (NOT PLOTTABLE)

27. THE RIGHTS OF THE LOT OWNERS OF HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM IN AND TO THE USE OF THE VACATED PORTION OF ALLEY, AS TO PARCELS 6 AND 7

DATE ISSUED/REVISED 08-27-21 ISSUED FOR ENGINEERING REVIEW

Know what's **below**

Call before you dig.

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LAND SURVEYORS

LAND PLANNERS

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46777 WOODWARD AVE.

PONTIAC, MI 48342-5032

TEL. (248) 332-7931

FAX. (248) 332-8257

WWW.NOWAKFRAUS.COM

PROJECT

CLIENT

Scripps District

3700 Trumbull

3701 Lincoln, LLC

6905 Telegraph Road,

Contact: Tim Loughrin

Phone: 248.282.1428

Contact: Jason Jones

Phone: 313.575.6835

Phone: 248.302.8662

Part of Hodges Bros.

Subdivision of Outlots

Wayne County, Michigan

Survey Notes / Tree List

PROJECT LOCATION

98, 99, 102 & 103

City of Detroit,

SHEET

Woodbridge Farm

Contact: George Roberts

Bloomfield Hills, MI 48301

DRAWN BY: M. Carnaghi **DESIGNED BY:**

APPROVED BY: K. Navaroli

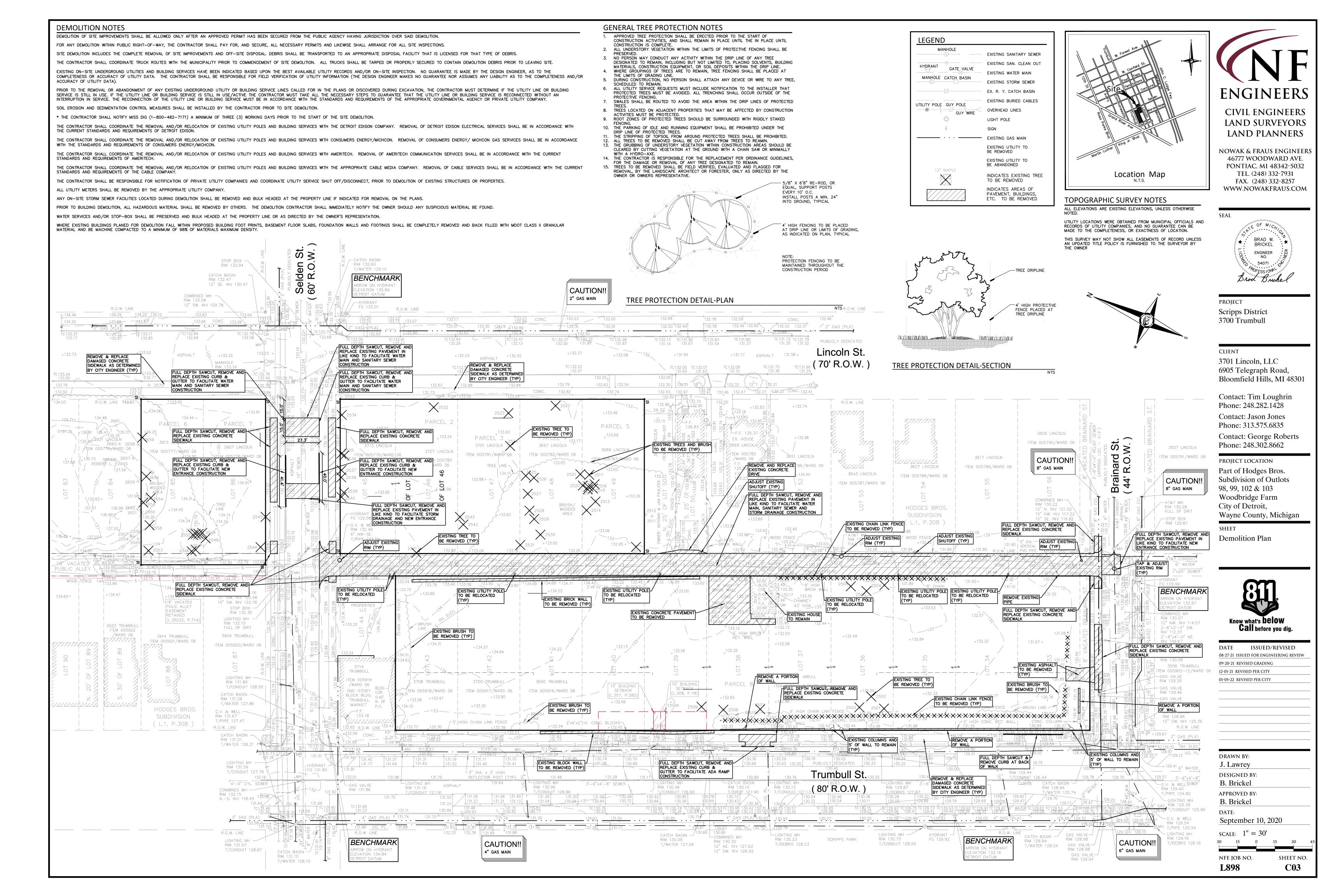
> DATE: September 10, 2020 SCALE: N.T.S.

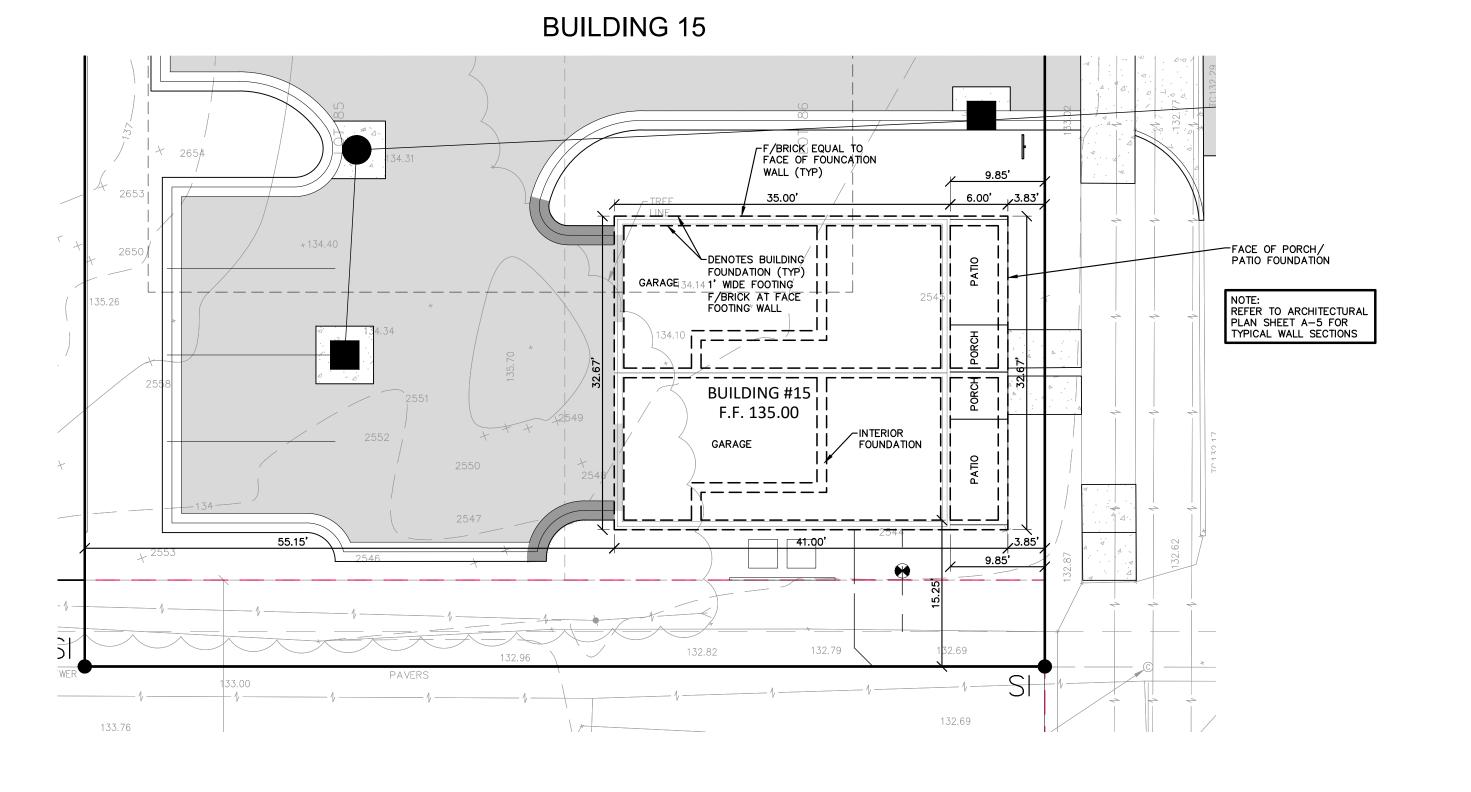
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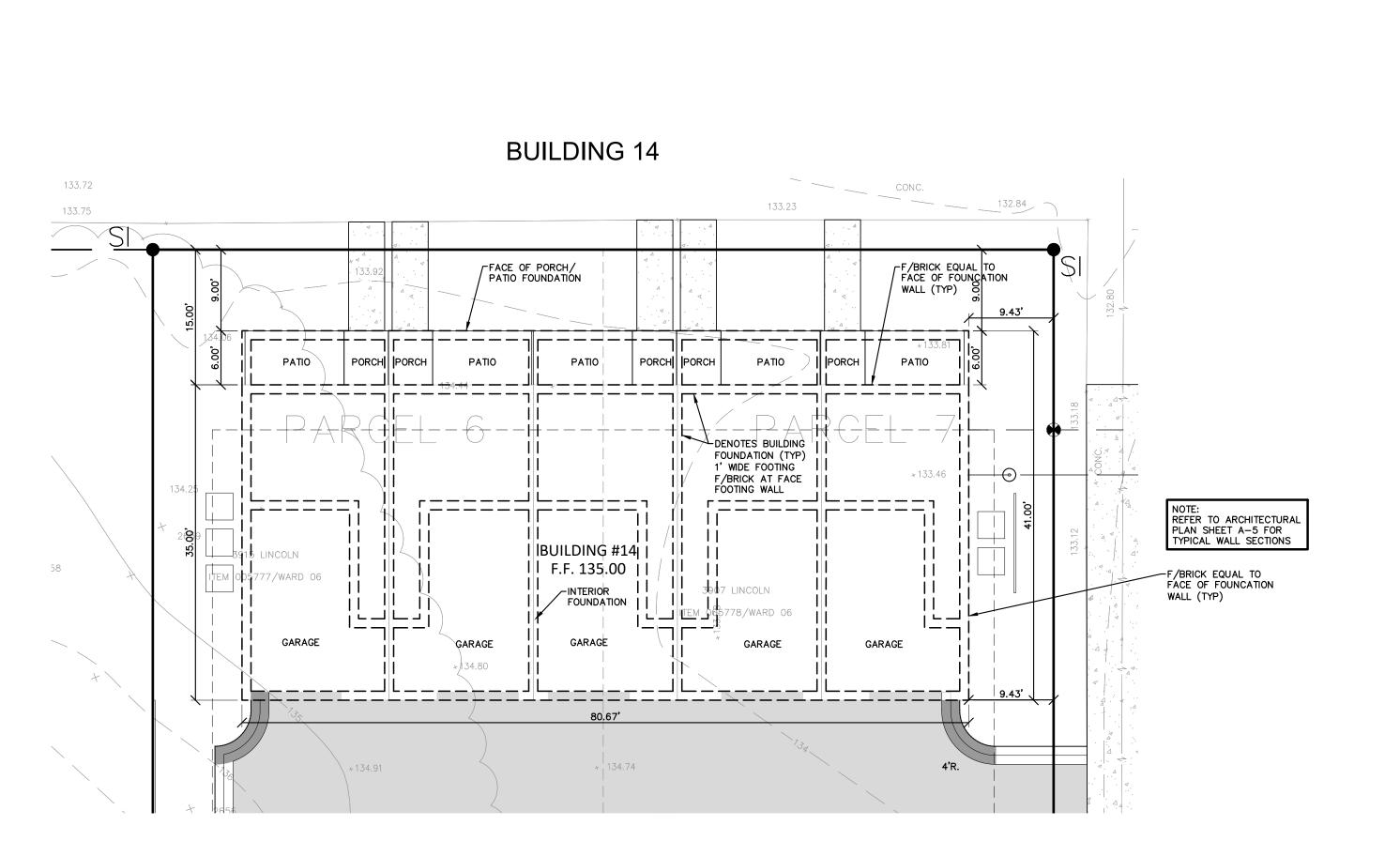
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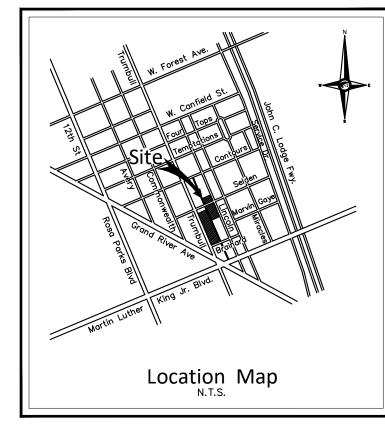
PART OF THIS SUBMISSION

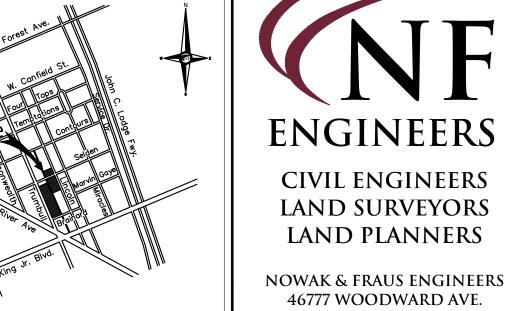
SHEET NO.



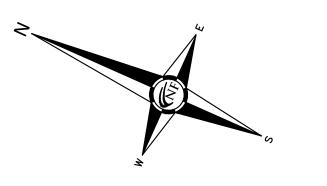


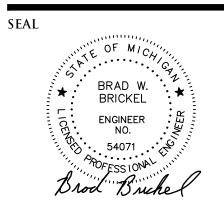






PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM





PROJECT
Scripps District
3700 Trumbull

3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Jason Jones
Phone: 313.575.6835
Contact: George Roberts
Phone: 248.202.8662

Contact: Tim Loughrin Phone: 248.282.1428

Contact: George Robert Phone: 248.302.8662

PROJECT LOCATION

Part of Hodges Bros.
Subdivision of Outlots
98, 99, 102 & 103

Woodbridge Farm
City of Detroit,
Wayne County, Michigan

Foundation Exhibit Plan (Parcel A)



DATE	ISSUED/REVISED
08-27-21 ISS	UED FOR ENGINEERING REVIEW
09-20-21 REV	VISED GRADING
12-01-21 REV	ISED PER CITY
01-05-22 REV	/ISED PER CITY
DRAWN 1	BY:
DRAWN J. Lawr	
	·ey
J. Lawr	rey ED BY:
J. Lawi designe	rey ED BY: kel
J. Lawr designe B. Bric	ey ED BY: kel ED BY:
J. Lawn DESIGNE B. Bric APPROVE	ey ED BY: kel ED BY:

SCALE: 1'' = 10'

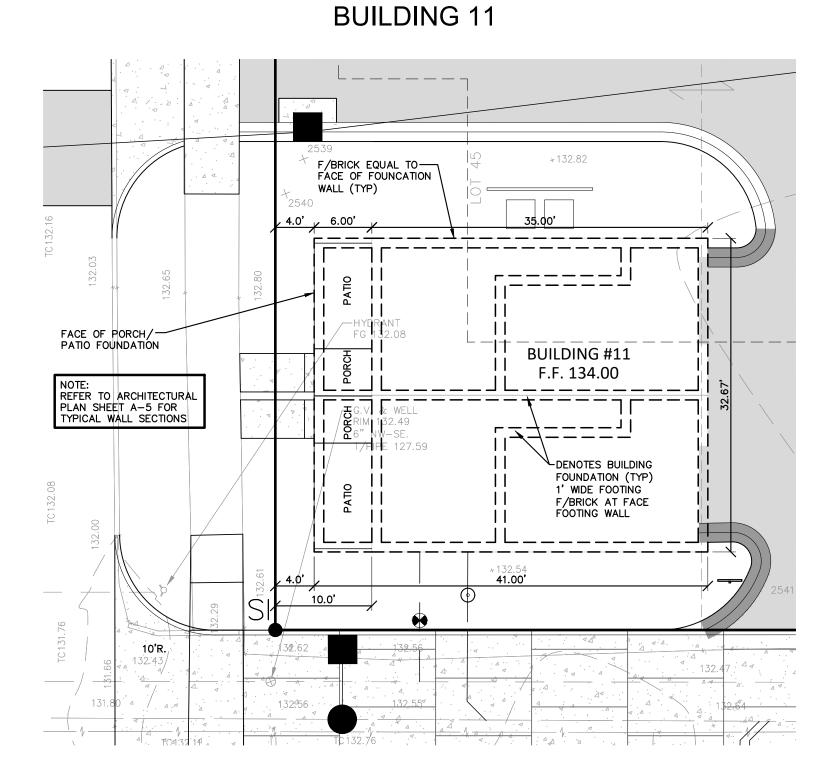
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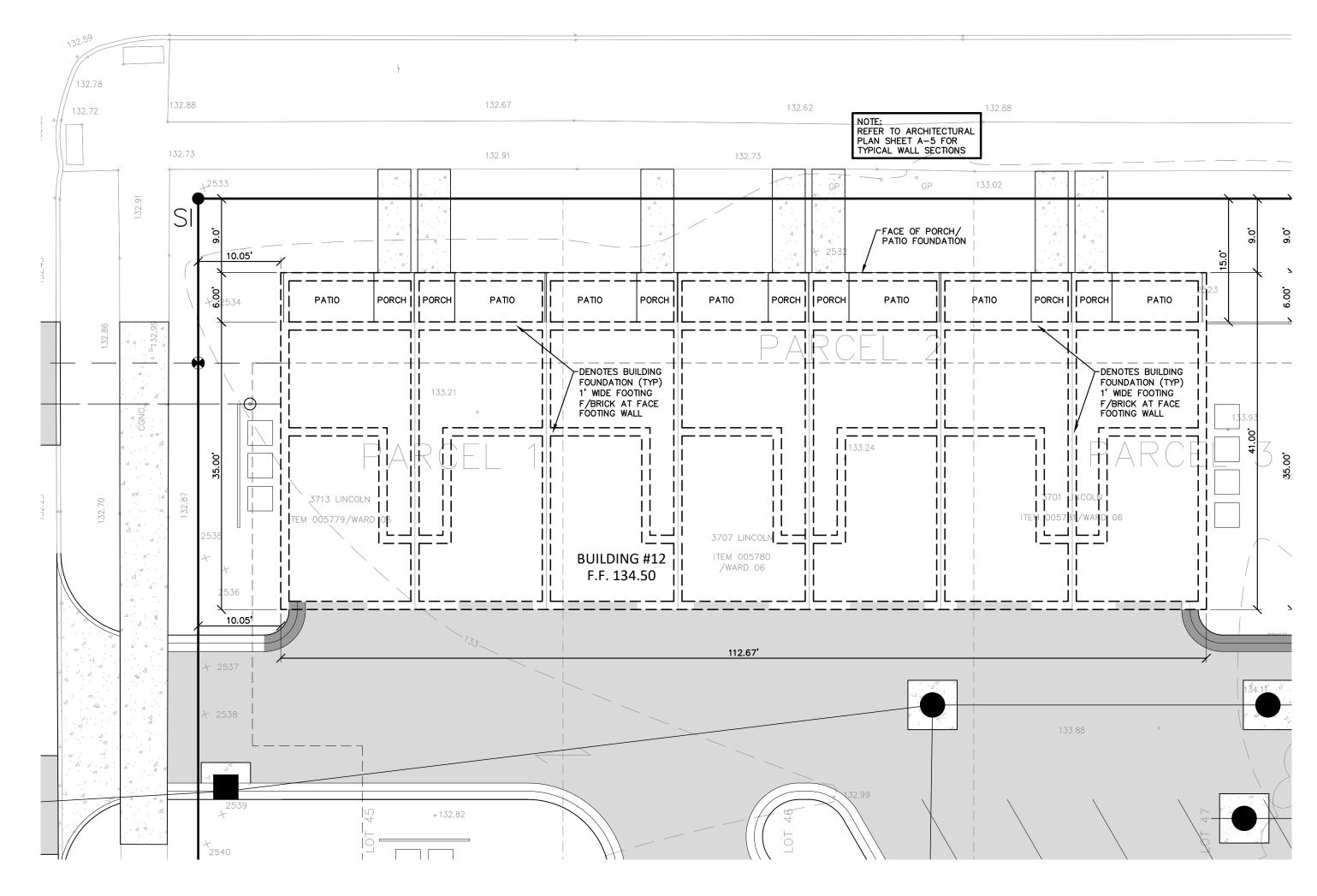
C04.1

NFE JOB NO.

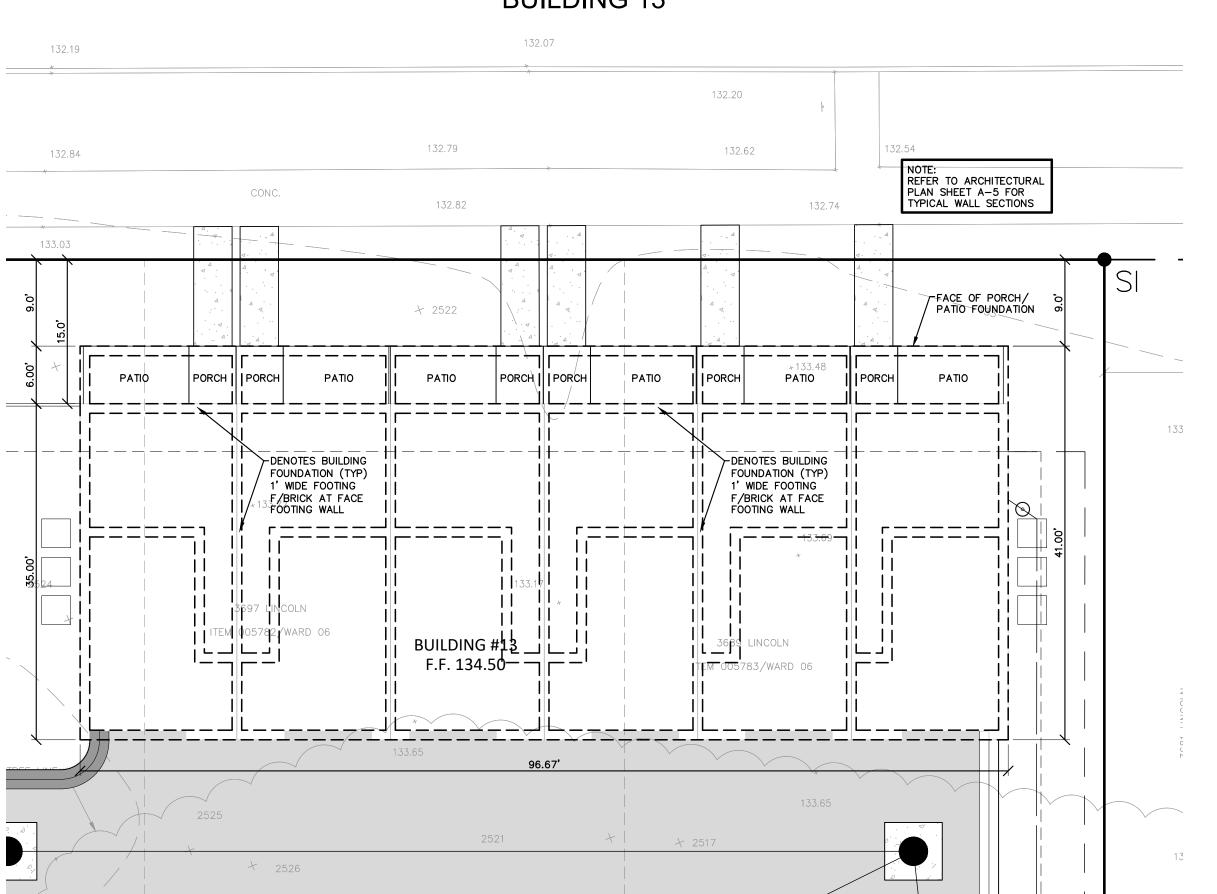
L898

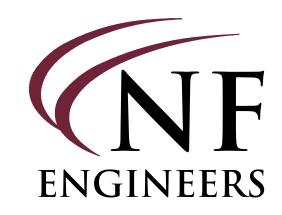
BUILDING 12





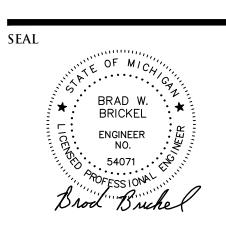
BUILDING 13





CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



PROJECT
Scripps District
3700 Trumbull

CLIENT
3701 Lincoln, LLC
6905 Telegraph Road,
Bloomfield Hills, MI 48301

Contact: Tim Loughrin

Phone: 248.282.1428
Contact: Jason Jones
Phone: 313.575.6835
Contact: George Roberts
Phone: 248.302.8662

PROJECT LOCATION

Part of Hodges Bros.

Subdivision of Outlots

98, 99, 102 & 103

Woodbridge Farm

City of Detroit,

Wayne County, Michigan

SHEET
Foundation Exhibit Plan
(Parcel B)

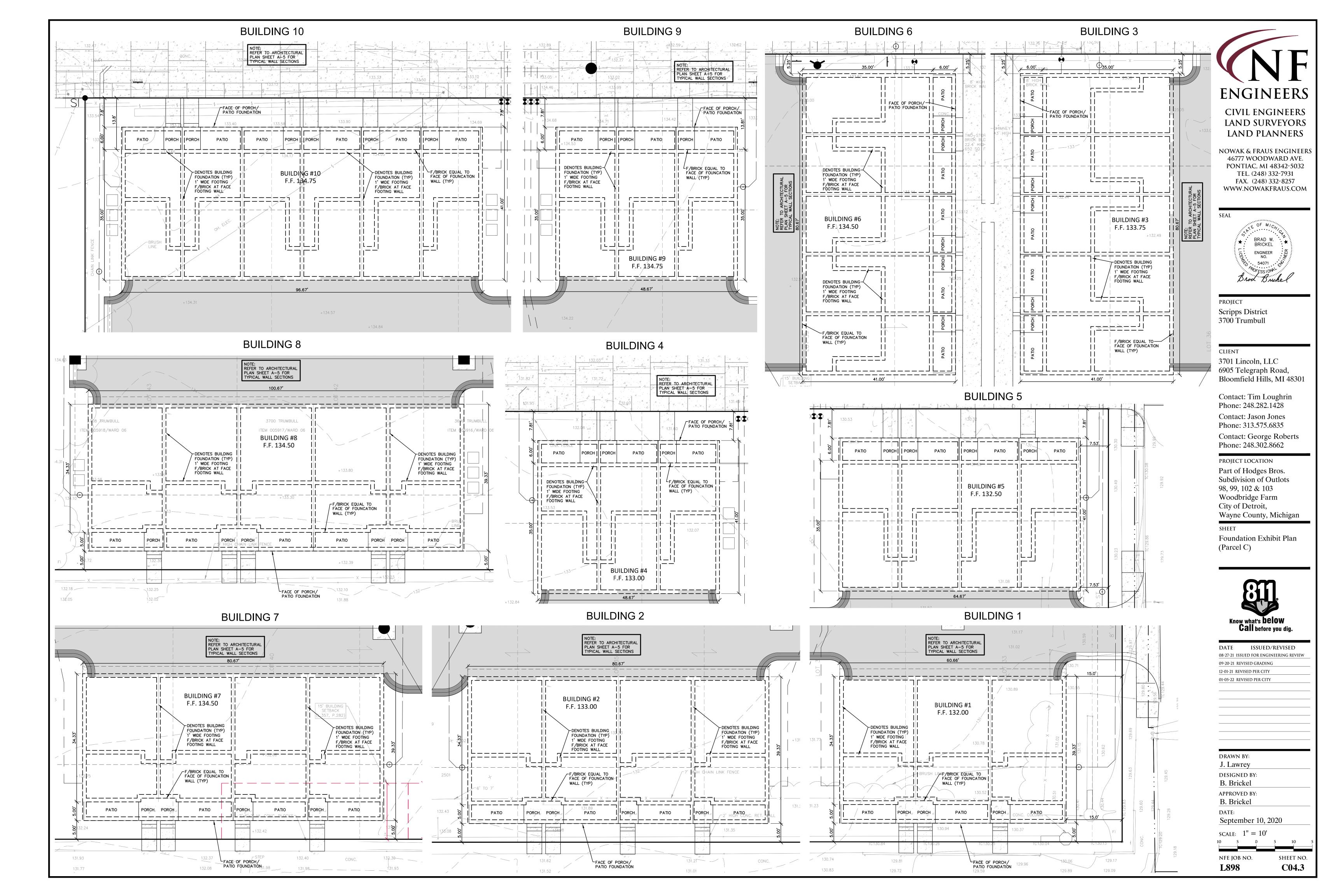


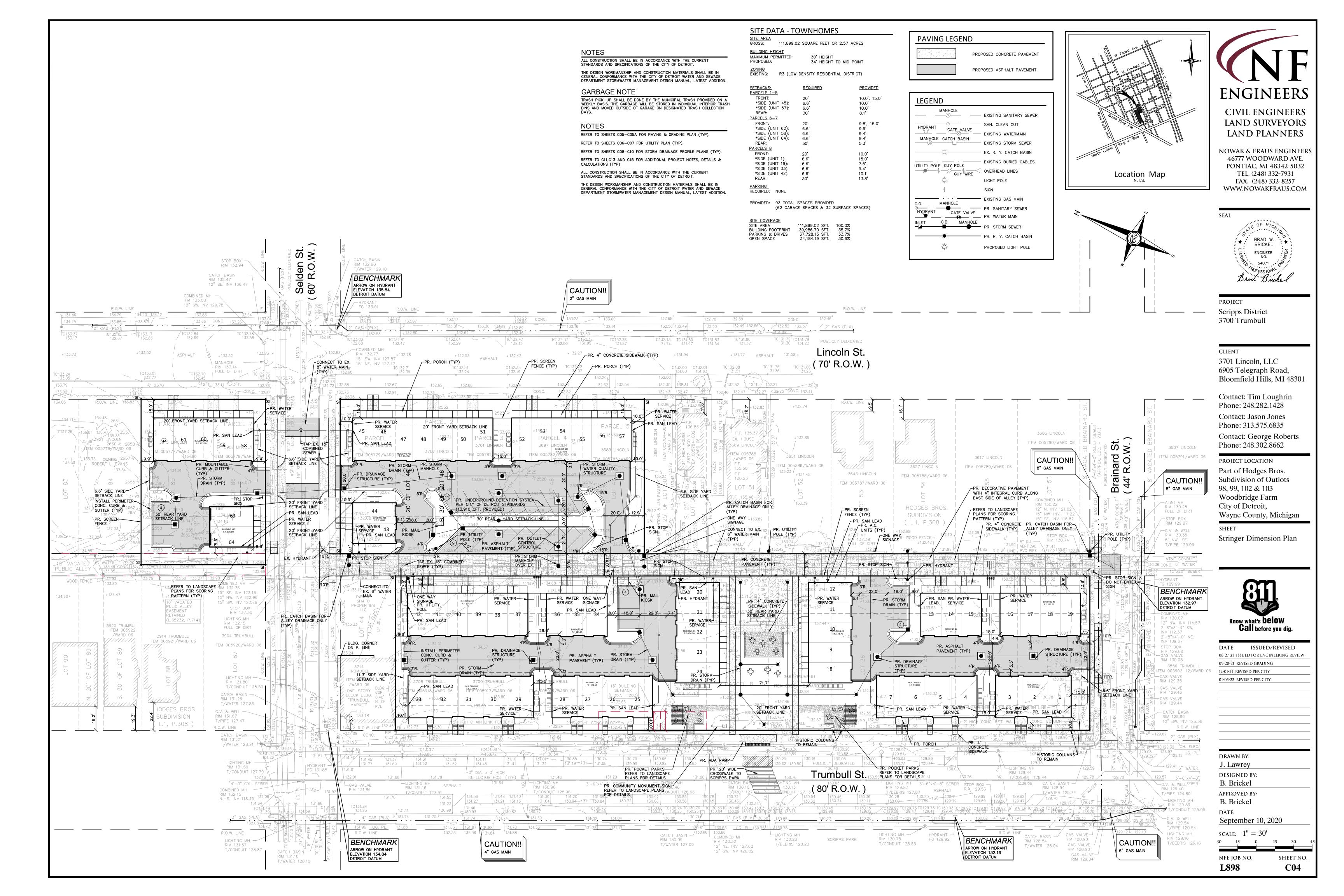
DATE	ISSUED/REVISED
	SUED FOR ENGINEERING REVIE
09-20-21 R	EVISED GRADING
12-01-21 RE	EVISED PER CITY
01-05-22 R	EVISED PER CITY
DRAWN	I BY:
drawn J. Law	
	vrey
J. Law	vrey HED BY:
DESIGN	vrey HED BY: ckel

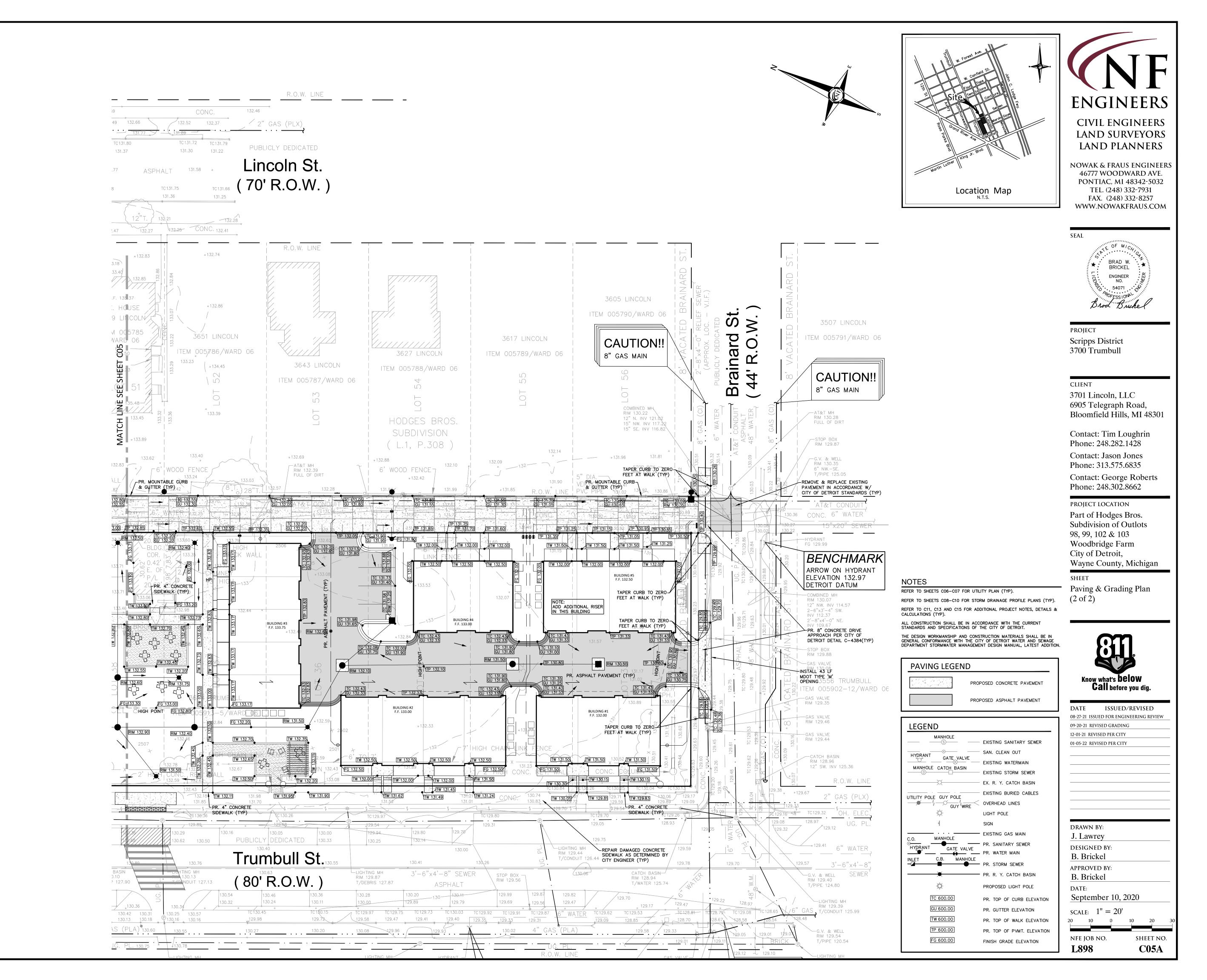
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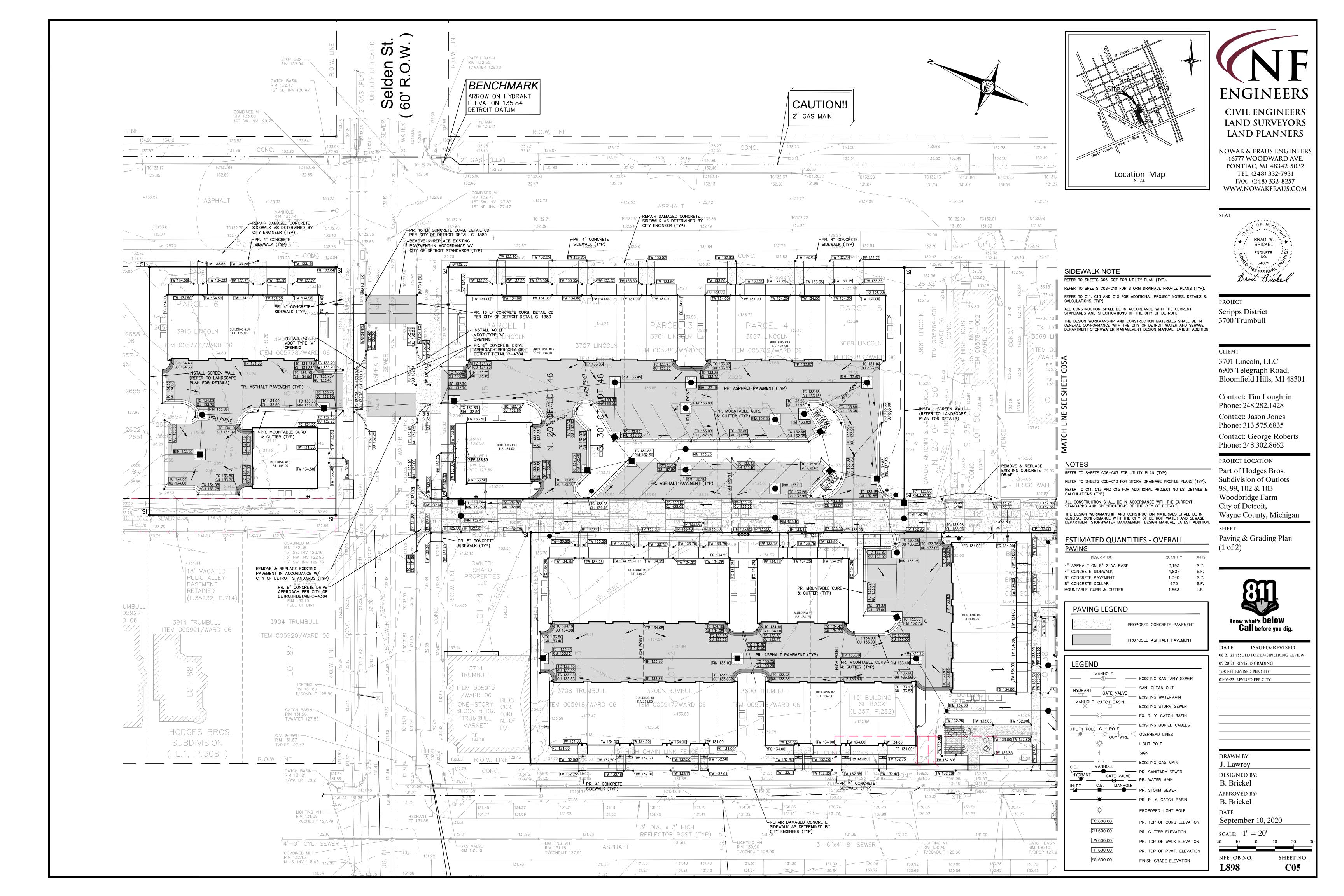
September 10, 2020

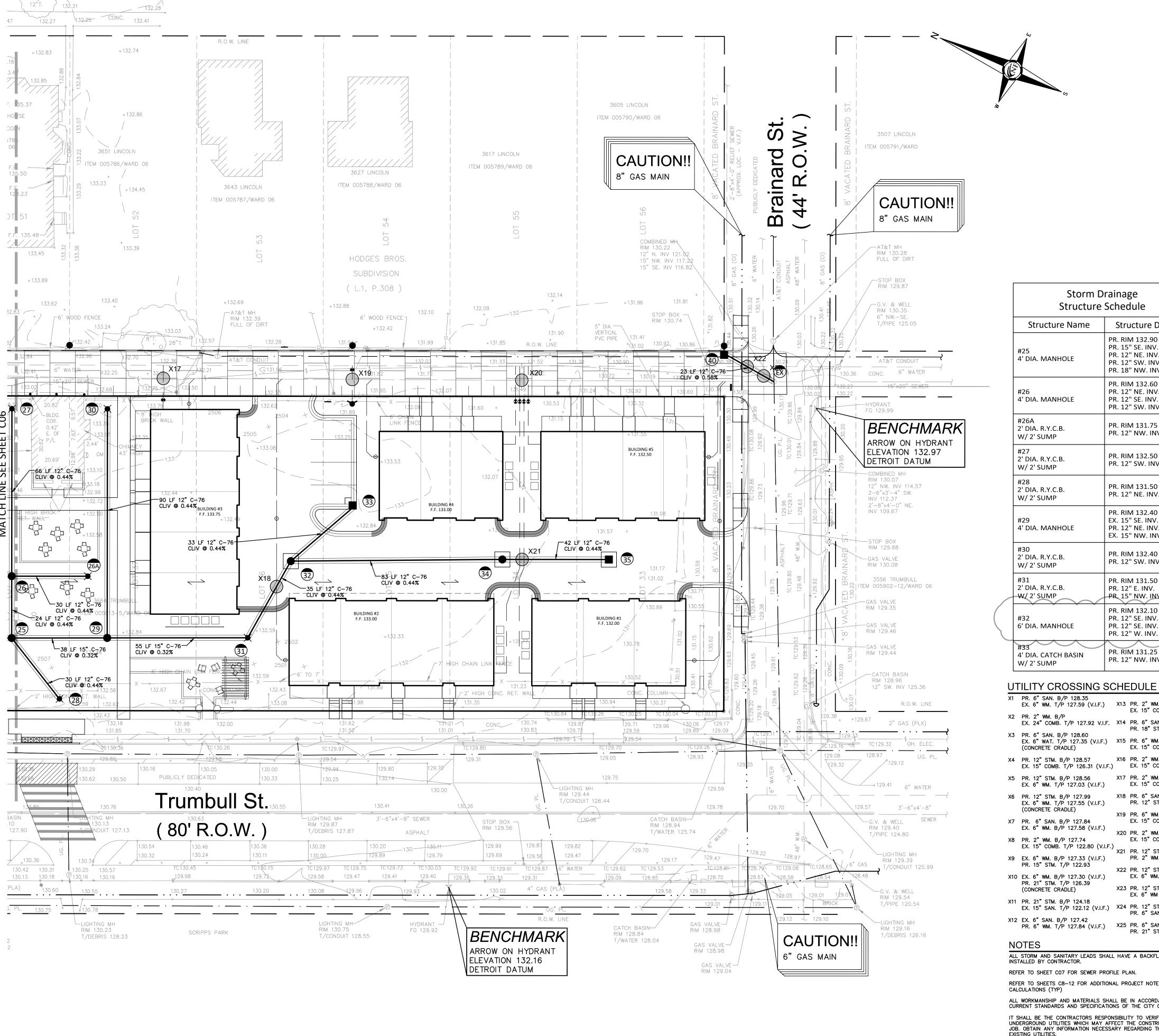
NFE JOB NO. SHEET NO. **L898 C04.2**













	Drainage e Schedule
Structure Name	Structure Details
#34 4' DIA. MANHOLE	PR. RIM 131.50 PR. 12" SE. INV. 126.32 PR. 12" NW. INV. 126.32
#35 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 130.50 PR. 12" NW. INV. 126.50
#40 2' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 130.35 PR. 12" S. INV. 126.35
#EX TAP & ADJUST EXISTING MANHOLE	PR. RIM 130.22 EX. 15" NW. INV. 117.22 PR. 12" N. INV. 126.22 PR. 12" SE. INV. 116.82

X1 PR. 6" SAN. B/P 128.35 EX. 6" WM. T/P 127.59 (V.I.F.) X13 PR. 2" WM. B/P 127.35 EX. 15" COMB. T/P 121.55 X2 PR. 2" WM. B/P EX. 24" COMB. T/P 127.92 V.I.F. X14 PR. 6" SAN. B/P 128.16

Storm Drainage

Structure Schedule

Structure Name

4' DIA. MANHOLE

4' DIA. MANHOLE

2' DIA. R.Y.C.B.

2' DIA. R.Y.C.B.

W/ 2' SUMP

2' DIA. R.Y.C.B.

4' DIA. MANHOLE

2' DIA. R.Y.C.B.

2' DIA. R.Y.C.B.

6' DIA. MANHOLE

4' DIA. CATCH BASIN

-W/ 2' SUMP

W/ 2' SUMP

W/ 2' SUMP

W/ 2' SUMP

W/ 2' SUMP

Structure Details

PR. 15" SE. INV. 125.30 PR. 12" NE. INV. 127.41

PR. 12" SW. INV. 127.37 PR. 18" NW. INV. 125.20

PR. 12" NE. INV. 128.21

PR. 12" SE. INV. 127.62

PR. 12" SW. INV. 127.52

PR. 12" NW. INV. 127.75

PR. 12" SW. INV. 128.50

PR. 12" NE. INV. 127.50

PR. 12" NE. INV. 128.00 EX. 15" NW. INV. 125.42

PR. 12" SW. INV. 128.40

PR. 12" E. INV. 125.70

PR. 15" NW. INV. 125.60

PR. 12" SE. INV. 125.95

PR. 12" SE. INV. 127.11

PR. 12" W. INV. 125.85

PR. 12" NW. INV. 127.25

X20 PR. 2" WM. B/P 126.13

X23 PR. 12" STM. B/P 126.06

PR. RIM 132.90

PR. RIM 132.60

PR. RIM 131.75

PR. RIM 132.50

PR. RIM 131.50

PR. RIM 132.40 EX. 15" SE. INV. 125.42

PR. RIM 132.40

PR. RIM 131.50

PR. RIM 132.10

PR. RIM 131.25

PR. 18" STM. T/P 126.64 X3 PR. 6" SAN. B/P 128.60 EX. 6" WAT. T/P 127.35 (V.I.F.) X15 PR. 6" WM. B/P 127.35 EX. 15" COMB. T/P 121.76 (CONCRETE CRADLE) X16 PR. 2" WM. B/P 127.86 X4 PR. 12" STM. B/P 128.57

X17 PR. 2" WM. B/P 127.15 X5 PR. 12" STM. B/P 128.56 EX. 15" COMB. T/P 120.83 (V.I.F.) EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS. EX. 6" WM. T/P 127.03 (V.I.F.) X18 PR. 6" SAN. B/P 127.65 X6 PR. 12" STM. B/P 127.99

PR. 12" STM. T/P 126.99 EX. 6" WM. T/P 127.55 (V.I.F.) (CONCRETE CRADLE) X7 PR. 6" SAN. B/P 127.84

X8 PR. 2" WM. B/P 127.74 EX. 15" COMB. T/P 118.11 (V.I.F PR. 2" WM. B/F 12/./7
EX. 15" COMB. T/P 122.80 (V.I.F.)
X21 PR. 12" STM. B/P 126.16 X9 EX. 6" WM. B/P 127.33 (V.I.F.) PR. 2" WM. T/P 124.66 PR. 15" STM. T/P 122.93 X10 EX. 6" WM. B/P 127.30 (V.I.F.) EX. 6" WM. 125.14 PR. 21" STM. T/P 126.39

EX. 6" WM T/P 125.12 X11 PR. 21" STM. B/P 124.18 EX. 15" SAN. T/P 122.12 (V.I.F.) X24 PR. 12" STM. B/P 127.71 PR. 6" SAN. T/P 126.21 X12 EX. 6" SAN. B/P 127.42 PR. 6" WM. T/P 127.84 (V.I.F.) X25 PR. 6" SAN B/P 127.78 PR. 21" STM. T/P 126.30

(CONCRETE CRÁDLE)

EX. 6" WM. B/P 127.58 (V.I.F.)

ALL STORM AND SANITARY LEADS SHALL HAVE A BACKFLOW PREVENTER INSTALLED BY CONTRACTOR. REFER TO SHEET CO7 FOR SEWER PROFILE PLAN. REFER TO SHEETS C8-12 FOR ADDITIONAL PROJECT NOTES, DETAIL & CALCULATIONS (TYP)

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF DETROIT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AND/OR UNDERGROUND UTILITIES WHICH MAY AFFECT THE CONSTRUCTION OF THIS JOB. OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF

FOR UTILITY PROTECTION, 72 HOURS BEFORE YOU DIG, DIAL MISS DIG TRENCHES BELOW THE PAVEMENT OR WITHIN 3 FEET BACK OF CURB SHALL

STORM SEWER, SANITARY SEWER, WATER MAIN, AND BUILDING LEAD BE BACKFILLED WITH SAND COMPACTED TO A MINIMUM 95 PRIOR TO PLACEMENT NOTIFY THE CITY OF DETROIT ENGINEERING DEPARTMENT, PHONE (224-3970), 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ALL PROPERTIES OF FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION THE

THE DESIGN WORKMANSHIP AND CONSTRUCTION MATERIALS SHALL BE IN GENERAL CONFORMANCE WITH THE CITY OF DETROIT WATER AND SEWAGE DEPARTMENT STORMWATER MANAGEMENT DESIGN MANUAL, LATEST ADDITION.

UTILITY NOTES

ALL UTILITY CROSSINGS SHALL MAINTAIN 18" VERTICAL CLEARANCE LOWER WATER MAIN IF CROSSING CLEARANCE IS LESS THAN 18" PROVIDE A MINIMUM OF 5.0 FEET SEPARATION BETWEEN DOMESTIC CONNECTION TO EXISTING WATER MAIN SHALL NOT BE MADE UNTIL

AFTER SUCCESSFUL COMPLETION OF BACTERIOLOGICAL & PRESSURE

HYDRANTS SHALL BE LOCATED A MINIMUM OF 5.0 FEET FROM THE BACK OF CURB, PROTECTIVE BOLLARDS SHOULD BE PROVIDED IN

UTILITY CROSSING NOTE

AT LOCATIONS WHERE THERE ARE CROSSING WITH EXISTING UTILITIES AND THEIR DEPTHS ARE UNKNOWN, 18" VERTICAL SEPARATION WILL BE MAINTAINED WHENEVER POSSIBLE. IF THE 18" SEPARATION IS NOT OBTAINABLE, A CONCRETE ENCASEMENT WILL BE INSTALLED AT THE CROSSING. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' EX. 15" COMB. T/P 126.31 (V.I.F.)

EX. 15" COMB. T/P 126.31 (V.I.F.)

EX. 15" COMB. T/P 121.55 (V.I.F.) CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE

EX. 15" COMB. T/P 120.17 (V.I.F.) ESTIMATED QUANTITIES - THIS SHEET

	<u> </u>		
l.F.)	STORM SEWER		
,	DESCRIPTION	QUANTITY	UNITS
	12" C-76, CLASS IV, SEWER PIPE	469	L.F.
	15" C-76, CLASS IV, SEWER PIPE	93	L.F.
	4' DIA. R.Y.C.B. W/ 2' SUMP	1	EA.
	2' DIA. R.Y.C.B.	4	EA.
	4' DIA. MANHOLE	5	EA.
	2' DIA. INLET	2	EA.
	4' DIA. CATCH BASIN W/ 2' SUMP	1	EA.

	LEGEND	
	MANHOLE S	EXISTING SANITARY SEWER
		SAN. CLEAN OUT
	MANHOLE CATCH BASIN	EXISTING WATER MAIN
		EXISTING STORM SEWER
	X	EX. R. Y. CATCH BASIN
	UTILITY POLE GUY POLE	EXISTING BURIED CABLES
	GUY WIRE	OVERHEAD LINES
	346	LICHT DOLE

2' DIA. CATCH BASIN W/ 2' SUMP

-	GUY WIRE	OVERHEAD LINES
	禁	LIGHT POLE
	٩	SIGN
	MANHOLE	EXISTING GAS MAIN
YDRANT	GATE VALVE	PR. SANITARY SEWER PR. WATER MAIN
ET	C.B. MANHOLE	PR. STORM SEWER
	who who	PR. R. Y. CATCH BASIN SAND BACKFILL (95 % DENSITY)

PROPOSED LIGHT POLE

ENGINEERS

CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

SEAL BRICKEL ENGINEER

PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit,

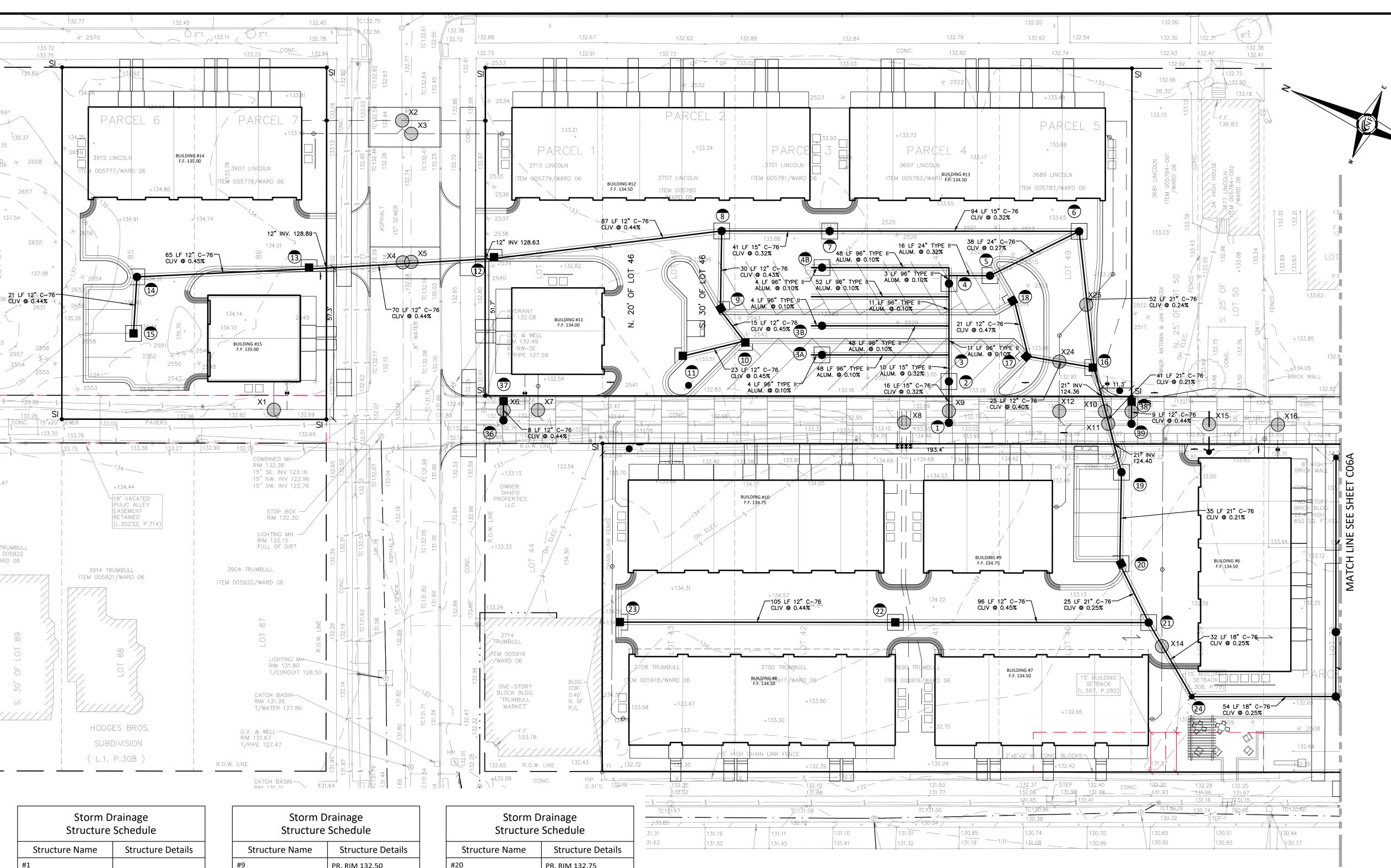
Wayne County, Michigan SHEET Storm Drainage Plan



8-27-21 ISSUED FOR ENGINEERING REVII 9-20-21 REVISED GRADING 2-01-21 REVISED PER CITY 1-05-22 REVISED PER CITY
2-01-21 REVISED PER CITY
1-05-22 REVISED PER CITY
DRAWN BY:
J. Lawrey
DESIGNED BY:
B. Brickel

B. Brickel September 10, 2020 SCALE: 1'' = 20'NFE JOB NO. SHEET NO.

C06A



Storm Drainage Structure Schedule			
Structure Name	Structure Details		
#1 CONSTRUCT 4' DIA. MANHOLE OVER EX. COMBINED SEWER W/ TRAP	PR. RIM 133.10 PR. 15" NE. INV. 121.44 PR. 15" NW. INV. 121.17 PR. 15" SE. INV. 121.17		
#2 6' DIA. OVERFLOW STRUCTURE W/ 2' SUMP & TRAP	PR. RIM 133.00 PR. 15" NE. INV. 121.49 PR. 15" SW. INV. 121.49		
#3 96" x 96" x 15" TEE	PR. RIM 133.00 PR. 96" NE. INV. 121.52 PR. 96" NW. INV. 121.52 PR. 15" SW. INV. 121.52		
#3A 36" ACCESS RISER	PR. RIM 132.90 PR. 96" NW. INV. 121.57		
#3B 36" ACCESS RISER	PR. RIM 132.85 PR. 96" NW. INV. 121.58 PR. 96" SE. INV. 121.58		
#4 36" ACCESS RISER	PR. RIM 132.85 PR. 96" NE. INV. 121.55 PR. 96" SW. INV. 121.55		
#4B 36" ACCESS RISER	PR. RIM 133.00 PR. 96" NW. INV. 121.60 PR. 96" SE. INV. 121.60		
#5 STORM WATER QUALITY STRUCTURE CDS2020-5-C - 687508-10	PR. RIM 133.00 PR. 24" SE. INV. 124.05 PR. 24" NW. INV. 123.95		
#6 6' DIA. MANHOLE	PR. RIM 133.65 PR. 21" SW. INV. 124.25 PR. 15" NW. INV. 127.26 PR. 24" NW. INV. 124.15		
#7 4' DIA. MANHOLE	PR. RIM 133.15 PR. 15" NW. INV. 127.66 PR. 15" SE. INV. 127.56		

Storm Drainage Structure Schedule				
Structure Name	Structure Details			
#9 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 132.50 PR. 12" SW. INV. 128.12 PR. 12" NE. INV. 128.02			
#10 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 132.50 PR. 12" NW. INV. 128.29 PR. 12" NE. INV. 128.19			
#11 2' DIA. INLET W/ 2' SUMP	PR. RIM 132.40 PR. 12" SE. INV. 128.40			
#12 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 132.50 PR. 12" NW. INV. 128.61 PR. 12" SE. INV. 128.51			
#13 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 133.00 PR. 12" NW. INV. 129.02 PR. 12" SE. INV. 128.92			
#14 4' DIA. MANHOLE	PR. RIM 133.85 PR. 12" W. INV. 129.41 PR. 12" SE. INV. 129.31			
#15 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 133.50 PR. 12" E. INV. 129.50			
#16 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 132.50 PR. 21" SW. INV. 124.37 PR. 12" N. INV. 127.95 PR. 21" NE. INV. 124.37			
#17 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 132.50 PR. 12" NE. INV. 128.15 PR. 12" S. INV. 128.05			
#18 2' DIA. INLET	PR. RIM 132.25 PR. 12" SW. INV. 128.25			
#19 4' DIA. MANHOLE	PR. RIM 133.15 PR. 21" SW. INV. 124.56 PR. 21" NE. INV. 124.46			

	Drainage e Schedule
Structure Name	Structure Details
#20 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 132.75 PR. 21" SW. INV. 124.73 PR. 21" NE. INV. 124.63
#21 4' DIA. MANHOLE	PR. RIM 133.40 PR. 18" SW. INV. 124.89 PR. 12" NW. INV. 128.11 PR. 21" NE. INV. 124.79
#22 4' DIA CATCH BASIN W/ 2' SUMP	PR. RIM 133.10 PR. 12" NW. INV. 128.64 PR. 12" SE. INV. 128.54
#23 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 133.10 PR. 12" SE. INV. 129.10
#24 2' DIA. R.Y.C.B. W/ 2' SUMP	PR. RIM 132.00 PR. 18" SE. INV. 125.06 PR. 18" NE. INV. 124.97
#36 CONSTRUCT 4' DIA. MANHOLE OVER EX. COMBINED SEWER	PR. RIM 132.45 PR. 12" NE. INV. 128.17 PR. 15" NW. INV. 122.66 PR. 15" SE. INV. 122.66
#37 2' DIA. CATCH BASIN W/ 2' SUMP & TRAP	EX. RIM 132.20 EX. 12" SW. INV. 128.20
#38 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 132.65 PR. 12" SW. INV. 128.65
#39 CONSTRUCT 4' DIA. MANHOLE OVER EX. COMBINED SEWER	PR. RIM 132.90 EX. 15" NW. INV. 120.56 PR. 12" NE. INV. 128.61 EX. 15" SE. INV. 120.56

V. 124.63		2
0 IV. 124.89 IV. 128.11 V. 124.79		2 1 2 9 3
0 NV. 128.64 V. 128.54	UTILITY CROSSING SC	HEDULE
0 V. 129.10	X1 PR. 6" SAN. B/P 128.35	X13 PR. 2" WM. B/P 127.35 EX. 15" COMB. T/P 121.55
0	X2 PR. 2" WM. B/P EX. 24" COMB. T/P 127.92 V.I.F.	·
V. 125.06 V. 124.97	X3 PR. 6" SAN. B/P 128.60 EX. 6" WAT. T/P 127.35 (V.I.F.) (CONCRETE CRADLE)	X15 PR. 6" WM. B/P 127.35 EX. 15" COMB. T/P 121.76
5 V. 128.17	X4 PR. 12" STM. B/P 128.57 EX. 15" COMB. T/P 126.31 (V.I.F.)	X16 PR. 2" WM. B/P 127.86 EX. 15" COMB. T/P 121.55 (V.I.F.)
NV. 122.66 V. 122.66	X5 PR. 12" STM. B/P 128.56 EX. 6" WM. T/P 127.03 (V.I.F.)	X17 PR. 2" WM. B/P 127.15 EX. 15" COMB. T/P 120.83 (V.I.F.)
0	EX. 6" WM. T/P 127.55 (V.I.F.) (CONCRETE CRADLE)	X18 PR. 6" SAN. B/P 127.65 PR. 12" STM. T/P 126.99
IV. 128.20	X7 PR. 6" SAN. B/P 127.84 FX. 6" WM. R/P 127.58 (VLF.)	X19 PR. 6" WM. B/P 126.32 EX. 15" COMB. T/P 120.17 (V.I.F.)
5 IV. 128.65	X8 PR. 2" WM. B/P 127.74 EX. 15" COMB. T/P 122.80 (V.I.F.)	X20 PR. 2" WM. B/P 126.13 EX. 15" COMB. T/P 118.11 (V.I.F.)
		721 110. 12 31W. D/F 120.10

X9 EX. 6" WM. B/P 127.33 (V.I.F.)

X10 EX. 6" WM. B/P 127.30 (V.I.F.)

PR. 21" STM. T/P 126.39

(CONCRETE CRADLE)

X11 PR. 21" STM. B/P 124.18

X12 EX. 6" SAN. B/P 127.42

PR. 15" STM. T/P 122.93

PR. 2" WM. T/P 124.66

EX. 6" WM. 125.14

EX. 15" SAN. T/P 122.12 (V.I.F.) X24 PR. 12" STM. B/P 127.71

PR. 6" WM. T/P 127.84 (V.I.F.) X25 PR. 6" SAN B/P 127.78

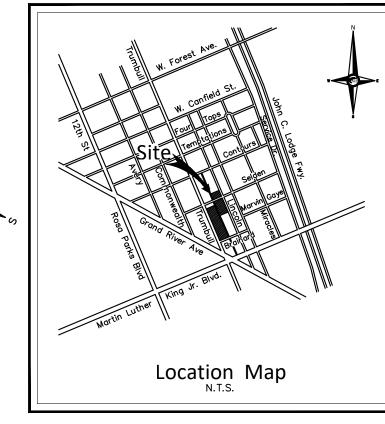
X22 PR. 12" STM. B/P 126.09

X23 PR. 12" STM. B/P 126.06

EX. 6" WM T/P 125.12

PR. 6" SAN. T/P 126.21

PR. 21" STM. T/P 126.30





LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

BRICKEL ENGINEER

UTILITY NOTES

ALL UTILITY CROSSINGS SHALL MAINTAIN 18" VERTICAL CLEARANCE BETWEEN UTILITIES. LOWER WATER MAIN IF CROSSING CLEARANCE IS LESS THAN 18" PROVIDE A MINIMUM OF 5.0 FEET SEPARATION BETWEEN DOMESTIC & FIRE SERVICE. CONNECTION TO EXISTING WATER MAIN SHALL NOT BE MADE UNTIL AFTER SUCCESSFUL COMPLETION OF BACTERIOLOGICAL & PRESSURE TESTS.

HYDRANTS SHALL BE LOCATED A MINIMUM OF 5.0 FEET FROM THE BACK OF CURB, PROTECTIVE BOLLARDS SHOULD BE PROVIDED IN ALL LOCATIONS.

UTILITY CROSSING NOTE

AT LOCATIONS WHERE THERE ARE CROSSING WITH EXISTING UTILITIES AND THEIR DEPTHS ARE UNKNOWN, 18" VERTICAL SEPARATION WILL BE MAINTAINED 6905 Telegraph Road, WHENEVER POSSIBLE. IF THE 18" SEPARATION IS NOT OBTAINABLE, A CONCRETE ENCASEMENT WILL BE INSTALLED AT THE CROSSING. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' SEPARATION CANNOT BE MAINTAINED, 18" VERTICAL CLEARANCE SHALL BE PROVIDED AND UTILITIES SHALL BE CONSTRUCTED IN SEPARATE TRENCHES.

CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS.

ALL STORM AND SANITARY LEADS SHALL HAVE A BACKFLOW PREVENTER INSTALLED BY CONTRACTOR. REFER TO SHEET CO8-C10 FOR SEWER DRAINAGE PROFILE PLAN (TYP). REFER TO SHEETS C11, C13 AND C15 FOR ADDITIONAL PROJECT NOTES, DETAIL & CALCULATIONS (TYP) ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF DETROIT.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AND/OR UNDERGROUND UTILITIES WHICH MAY AFFECT THE CONSTRUCTION OF THIS JOB. OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF EXISTING UTILITIES. FOR UTILITY PROTECTION, 72 HOURS BEFORE YOU DIG, DIAL MISS DIG

(800-482-7171). TRENCHES BELOW THE PAVEMENT OR WITHIN 3 FEET BACK OF CURB SHALL STORM SEWER, SANITARY SEWER, WATER MAIN, AND BUILDING LEAD BE BACKFILLED WITH SAND COMPACTED TO A MINIMUM 95 PRIOR TO PLACEMENT

NOTIFY THE CITY OF DETROIT ENGINEERING DEPARTMENT, PHONE (224-3970), Storm Drainage Plan ALL PROPERTIES OF FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION THE CONTRACTOR.

THE DESIGN WORKMANSHIP AND CONSTRUCTION MATERIALS SHALL BE IN GENERAL CONFORMANCE WITH THE CITY OF DETROIT WATER AND SEWAGE DEPARTMENT STORMWATER MANAGEMENT DESIGN MANUAL, LATEST ADDITION.

ESTIMATED QUANTITIES - THIS SHEET

STORM SEWER DESCRIPTION QUANTITY UNITS 569 12" C-76, CLASS IV, SEWER PIPE 15" C-76, CLASS IV, SEWER PIPE 151 L.F. 18" C-76, CLASS IV, SEWER PIPE 83 L.F. 21" C-76, CLASS IV, SEWER PIPE 157 24" C-76, CLASS IV, SEWER PIPE 15" TYPE II, ALUMINUM, SEWER PIPE 10 24" TYPE II, ALUMINUM, SEWER PIPE EA. EA. EA. EA.

6" TYPE II, ALUMINUM, SEWER PIPE 6" RISER 4' DIA. CATCH BASIN W/ 2' SUMP 4' DIA. MANHOLE 2' DIA. INLET 2' DIA. R.Y.C.B W/ 2' SUMP SEWER TAP/CONNECTION	4 E. 6 E. 8 E. 5 E. 2 E.	.F. A. A. A. A.
LEGEND		
MANHOLE S HYDRANT GATE VALVE MANHOLE CATCH BASIN	EXISTING SANITARY SEWER SAN. CLEAN OUT EXISTING WATER MAIN EXISTING STORM SEWER	
UTILITY POLE GUY POLE GUY WIRE	EX. R. Y. CATCH BASIN EXISTING BURIED CABLES OVERHEAD LINES LIGHT POLE SIGN	
C.O. MANHOLE HYDRANT GATE VALVE INLET C.B. MANHOLE	EXISTING GAS MAIN PR. SANITARY SEWER PR. WATER MAIN PR. STORM SEWER PR. R. Y. CATCH BASIN SAND BACKFILL	

(95 % DENSITY)

PROPOSED LIGHT POLE

PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC

Bloomfield Hills, MI 48301 Contact: Tim Loughrin

Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

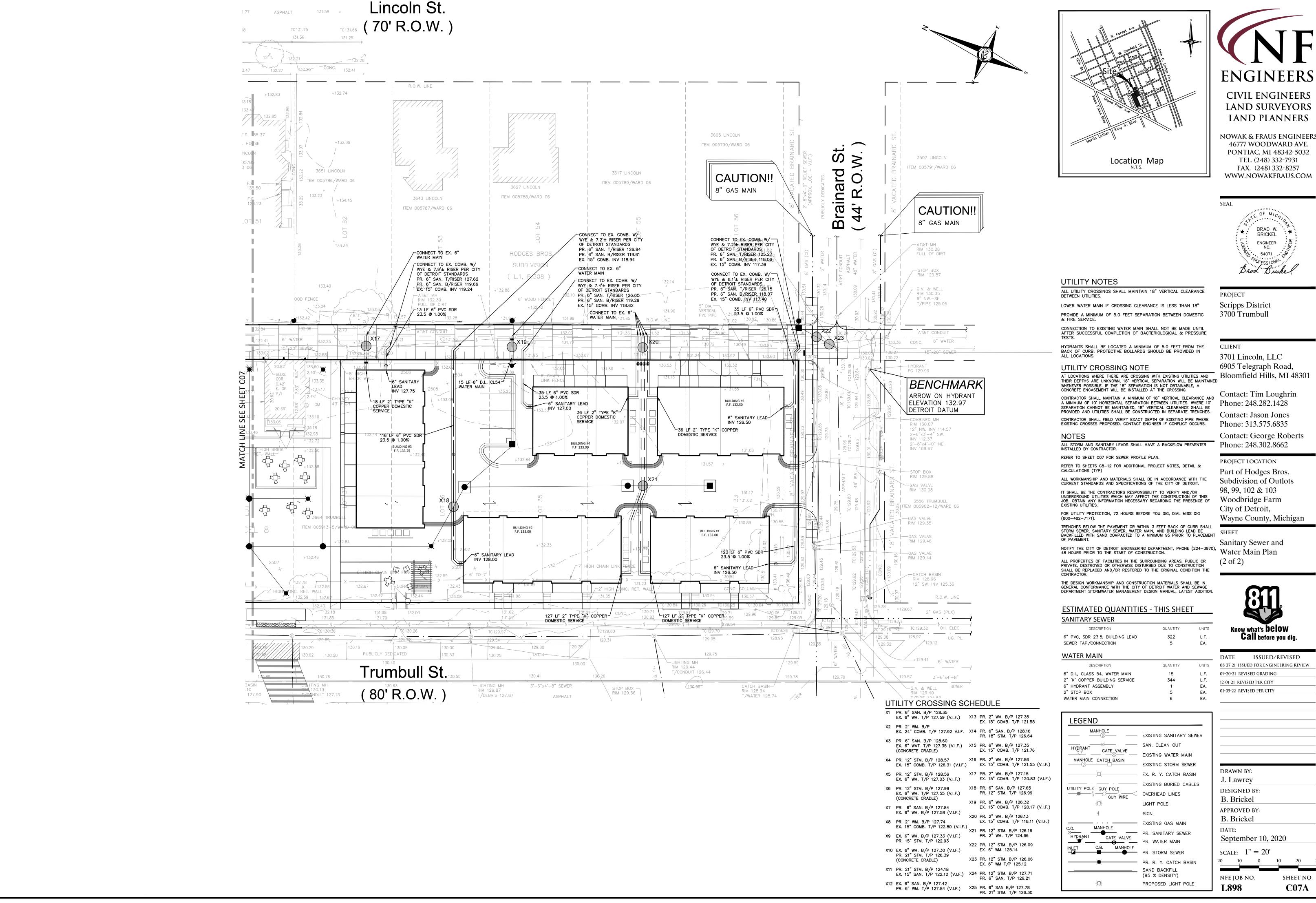
PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit,

Know what's **below** Call before you dig.

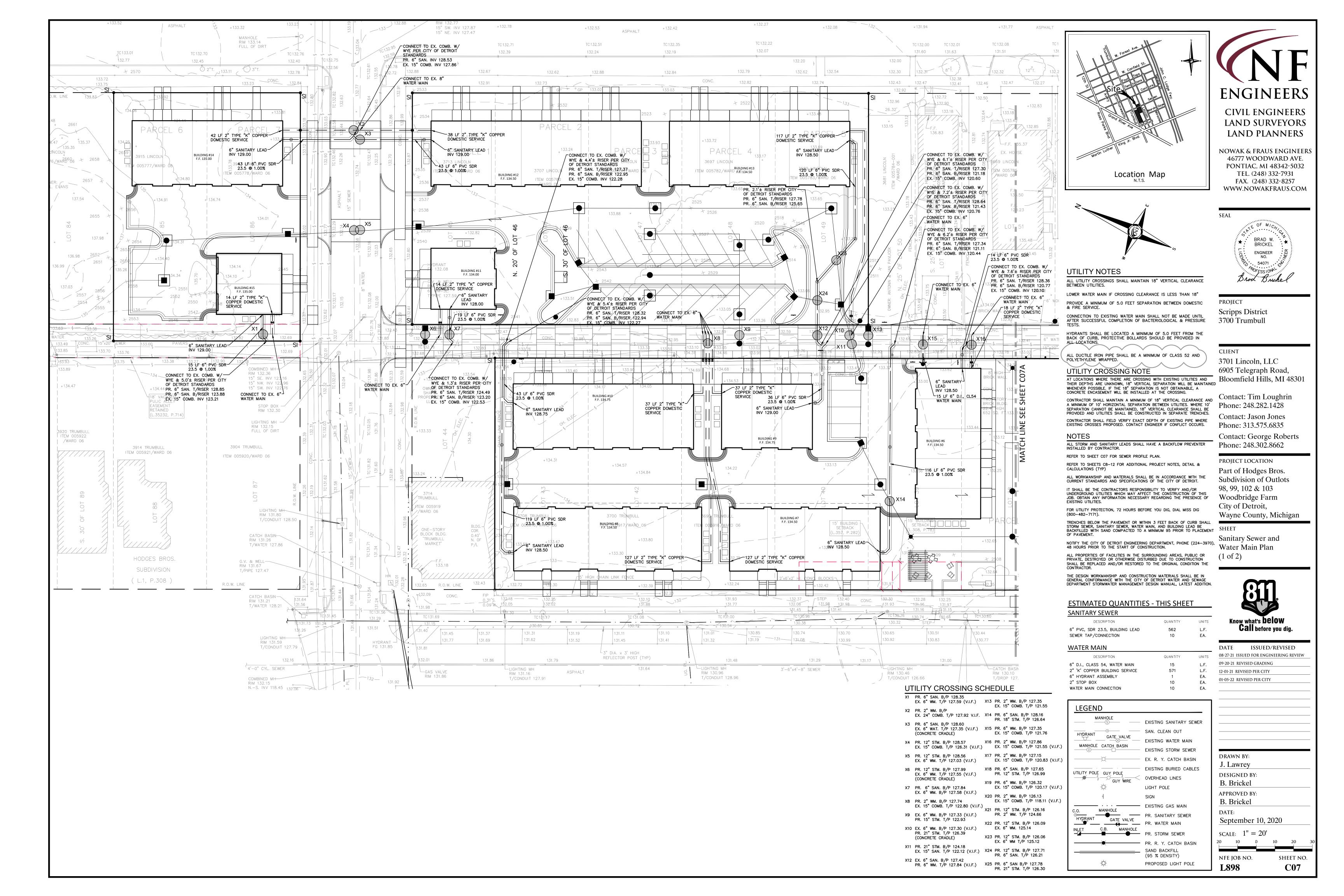
ISSUED/REVISED

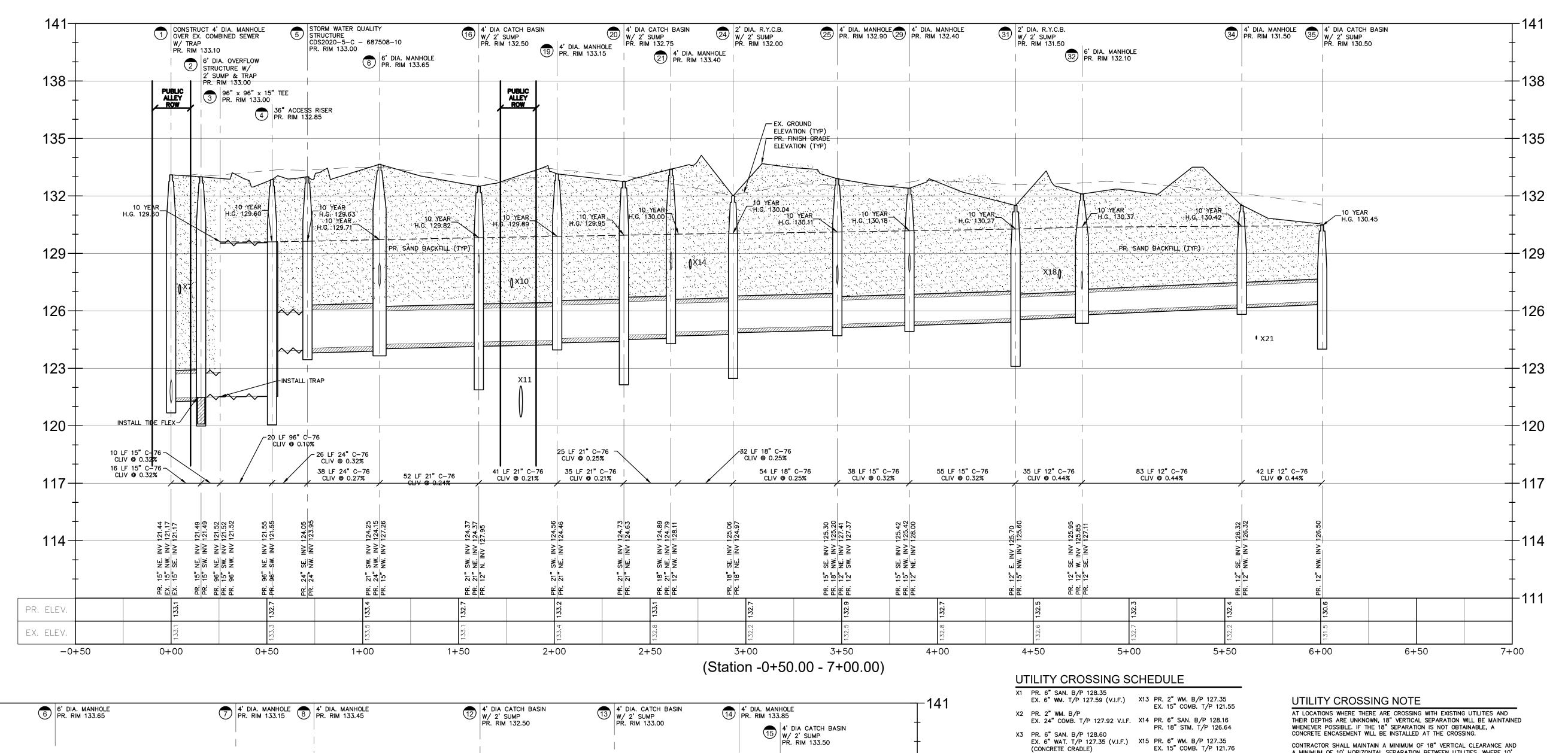
APPROVED BY: B. Brickel DATE: September 10, 2020 SCALE: 1'' = 20'

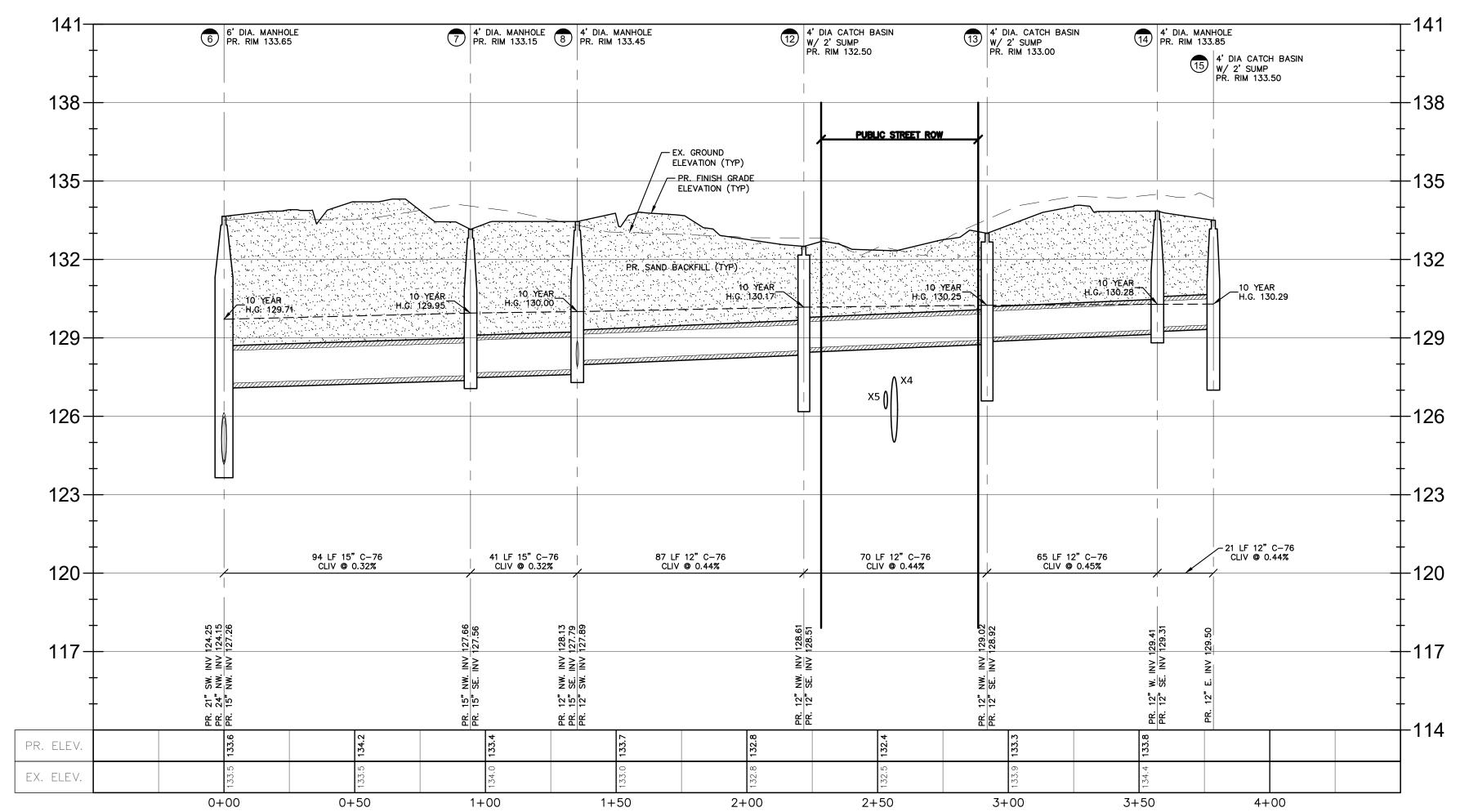
NFE JOB NO. SHEET NO. **C06**



ENGINEERS







(Station -0+50.00 - 4+50.00)

- X16 PR. 2" WM. B/P 127.86 X4 PR. 12" STM. B/P 128.57 EX. 15" COMB. T/P 126.31 (V.I.F.) EX. 15" COMB. T/P 121.55 (V.I.F.)
- X5 PR. 12" STM. B/P 128.56

EX. 6" WM. T/P 127.03 (V.I.F.) EX. 15" COMB. T/P 120.83 (V.I.F.)

- X18 PR. 6" SAN. B/P 127.65 X6 PR. 12" STM. B/P 127.99 PR. 12" STM. T/P 126.99 EX. 6" WM. T/P 127.55 (V.I.F.)
- X19 PR. 6" WM. B/P 126.32 X7 PR. 6" SAN. B/P 127.84 EX. 15" COMB. T/P 120.17 (V.I.F.)
- EX. 6" WM. B/P 127.58 (V.I.F.) X20 PR. 2" WM. B/P 126.13
- X8 PR. 2" WM. B/P 127.74 EX. 15" COMB. T/P 118.11 (V.I.F.) PR. 2" WM. B/P 127.77
 EX. 15" COMB. T/P 122.80 (V.I.F.)

 X21 PR. 12" STM. B/P 126.16
- X9 EX. 6" WM. B/P 127.33 (V.I.F.) PR. 2" WM. T/P 124.66 PR. 15" STM. T/P 122.93 X22 PR. 12" STM. B/P 126.09
- EX. 6" WM. 125.14 X10 EX. 6" WM. B/P 127.30 (V.I.F.) PR. 21" STM. T/P 126.39 X23 PR. 12" STM. B/P 126.06
- (CONCRETE CRADLE) EX. 6" WM T/P 125.12 X11 PR. 21" STM. B/P 124.18
- EX. 15" SAN. T/P 122.12 (V.I.F.) X24 PR. 12" STM. B/P 127.71 PR. 6" SAN. T/P 126.21 X12 EX. 6" SAN. B/P 127.42 PR. 6" WM. T/P 127.84 (V.I.F.) X25 PR. 6" SAN B/P 127.78 PR. 21" STM. T/P 126.30

A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' SEPARATION CANNOT BE MAINTAINED, 18" VERTICAL CLEARANCE SHALL BE PROVIDED AND UTILITIES SHALL BE CONSTRUCTED IN SEPARATE TRENCHES. CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS.

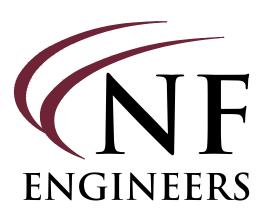
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LOWER WATER MAIN IF CROSSING CLEARANCE IS LESS THAN 18" PROVIDE A MINIMUM OF 5.0 FEET SEPARATION BETWEEN DOMESTIC

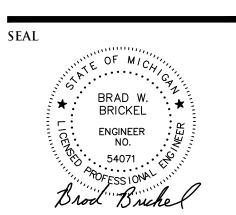
CONNECTION TO EXISTING WATER MAIN SHALL NOT BE MADE UNTIL AFTER SUCCESSFUL COMPLETION OF BACTERIOLOGICAL & PRESSURE

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CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit, Wayne County, Michigan

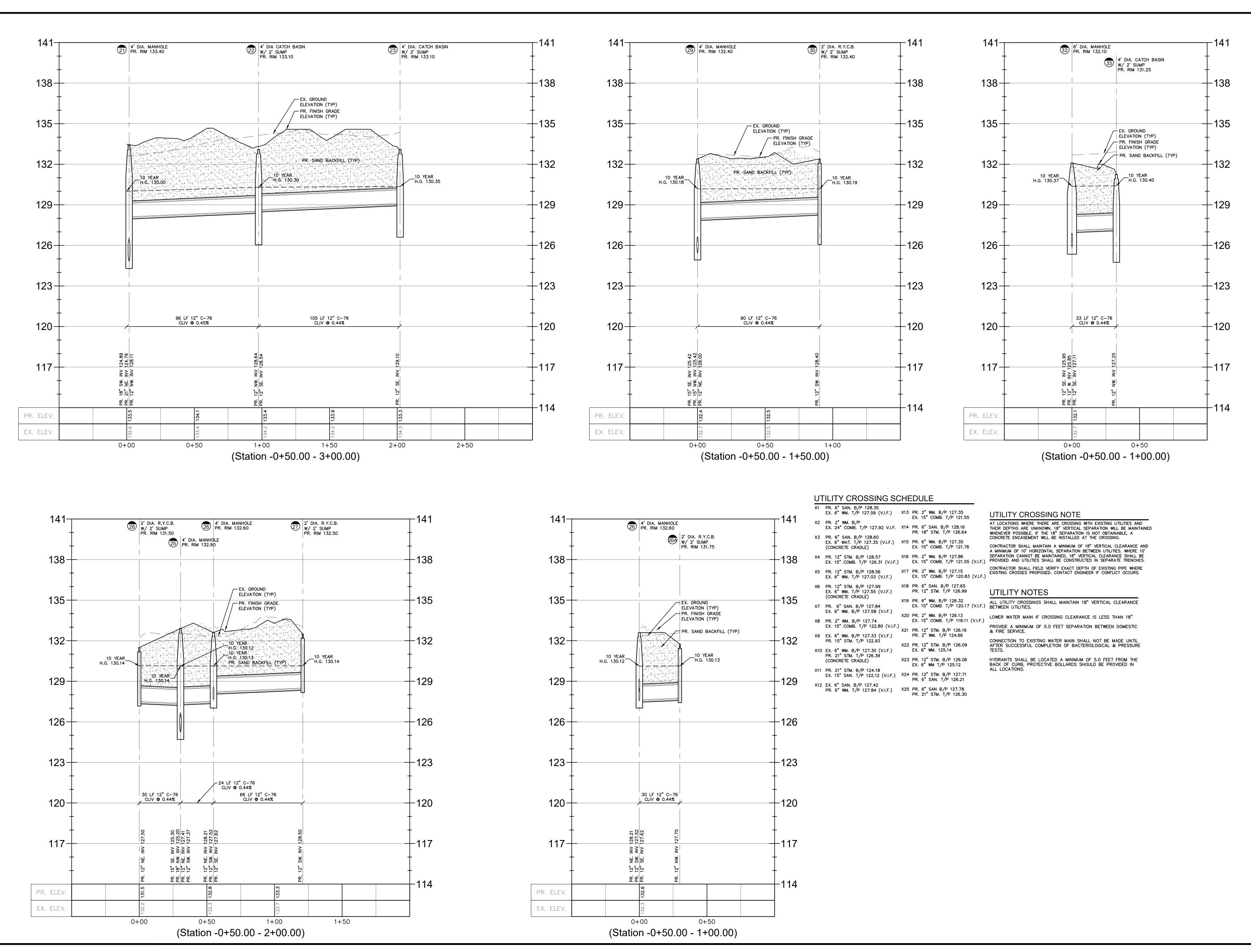
SHEET Storm Drainage Profile Plan

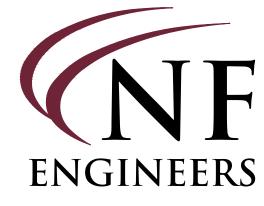


DATE	ISSUED/REVISED
	UED FOR ENGINEERING REV
09-20-21 REV	VISED GRADING
12-01-21 REV	ISED PER CITY
01-05-22 REV	VISED PER CITY
D.D. A.LANA	BY:
DRAWN	D 1.
J. Lawi	
	rey
J. Lawı	rey ED BY:
J. Lawı designi	rey ED BY: kel

September 10, 2020 SCALE: 1'' = 30' / 1'' = 3'

NFE JOB NO. SHEET NO. L898 **C08**





CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

BRAD W.
BRICKEL

ENGINEER
NO.

54071

Brood Bruckel

PROJECT
Scripps District
3700 Trumbull

CLIENT
3701 Lincoln, LLC
6905 Telegraph Road,
Bloomfield Hills, MI 48301

Phone: 248.282.1428
Contact: Jason Jones
Phone: 313.575.6835
Contact: George Roberts

Contact: Tim Loughrin

Phone: 248.302.8662
PROJECT LOCATION

Part of Hodges Bros.
Subdivision of Outlots
98, 99, 102 & 103
Woodbridge Farm
City of Detroit,
Wayne County, Michigan

SHEET
Storm Drainage
Profile Plan



	Gall before you dig.
DATE	ISSUED/REVISED
08-27-21 IS	SUED FOR ENGINEERING REVIEW
09-20-21 RI	EVISED GRADING
12-01-21 RE	VISED PER CITY
01-05-22 RI	EVISED PER CITY
DRAWN	BY:
J. Law	rey
DESIGN	ED BY:
B. Brid	ekel
APPROV	ED BY:
B. Brid	ekel
DATE:	
Septer	nber 10, 2020

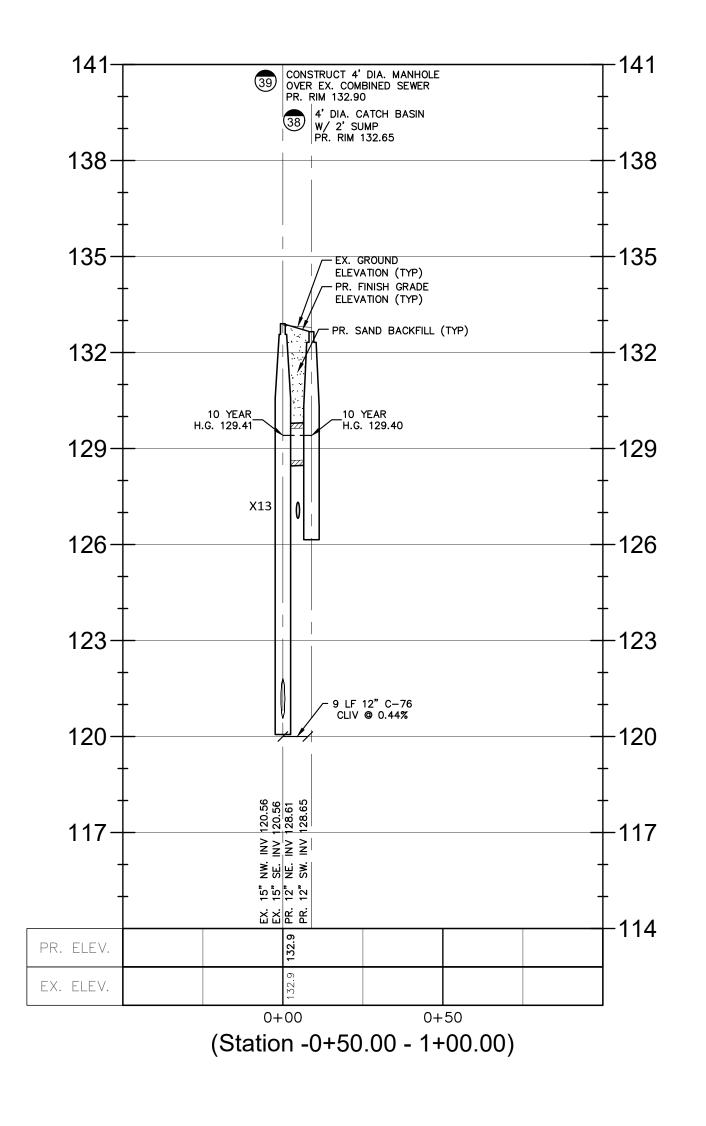
SCALE: 1'' = 30' / 1'' = 3'

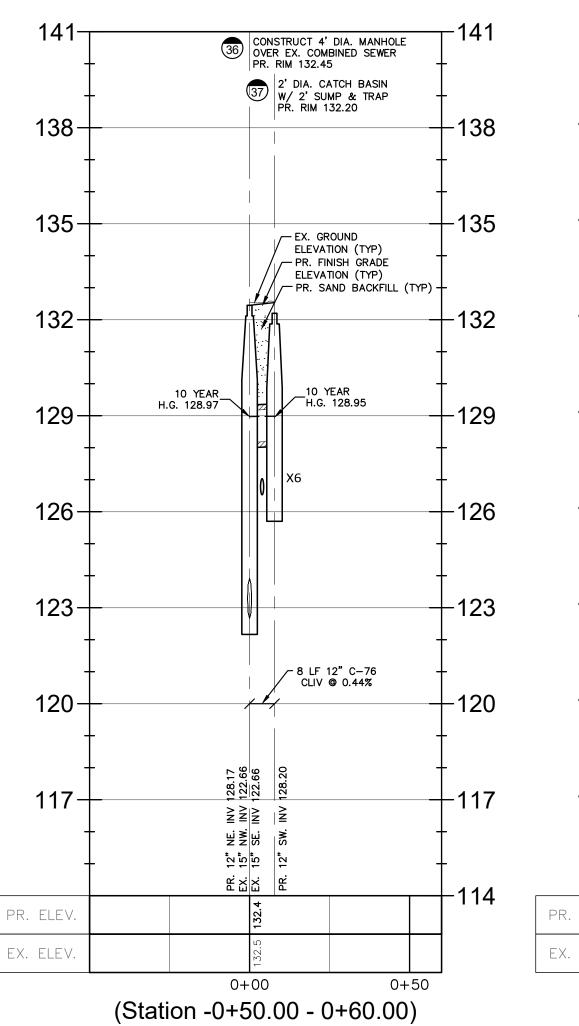
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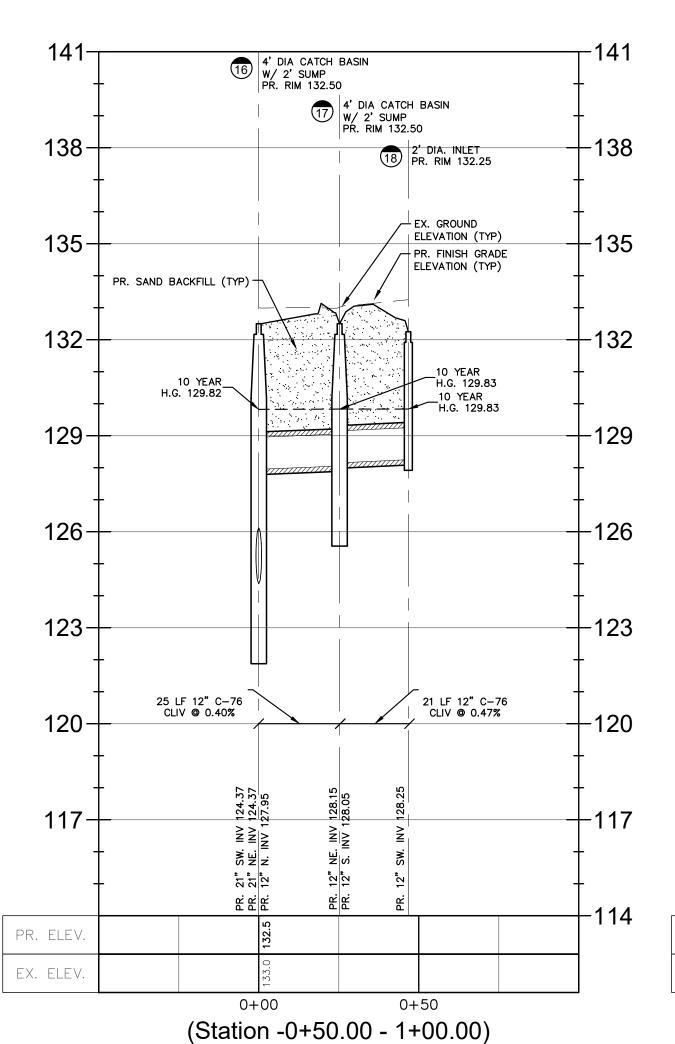
C09

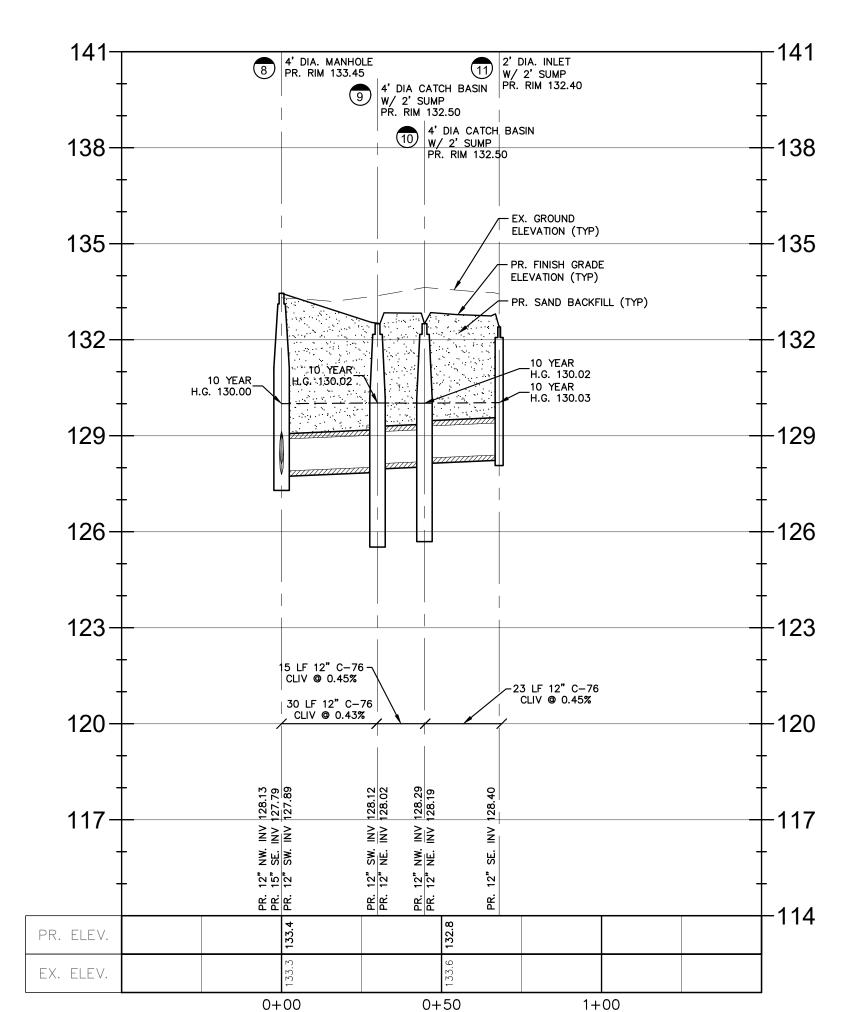
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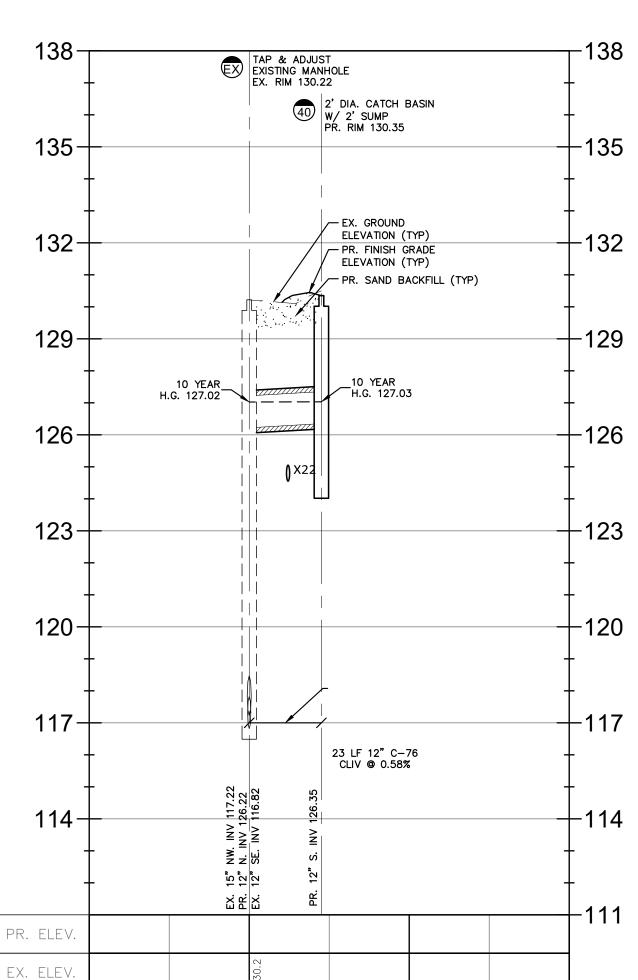
L898











0+50

(Station -0+50.00 - 1+00.00)

UTILITY CROSSING SCHEDULE

X1 PR. 6" SAN. B/P 128.35

EX. 6" WM. T/P 127.59 (V.I.F.) X13 PR. 2" WM. B/P 127.35 EX. 15" COMB. T/P 121.55 X2 PR. 2" WM. B/P EX. 24" COMB. T/P 127.92 V.I.F. X14 PR. 6" SAN. B/P 128.16

PR. 18" STM. T/P 126.64 X3 PR. 6" SAN. B/P 128.60 EX. 6" WAT. T/P 127.35 (V.I.F.) X15 PR. 6" WM. B/P 127.35 EX. 15" COMB. T/P 121.76

X4 PR. 12" STM. B/P 128.57 X16 PR. 2" WM. B/P 127.86 EX. 15" COMB. T/P 126.31 (V.I.F.) EX. 15" COMB. T/P 121.55 (V.I.F.)

X5 PR. 12" STM. B/P 128.56 X17 PR. 2" WM. B/P 127.15 EX. 6" WM. T/P 127.03 (V.I.F.) EX. 15" COMB. T/P 120.83 (V.I.F.)

X6 PR. 12" STM. B/P 127.99 EX. 6" WM. T/P 127.55 (V.I.F.) PR. 12" STM. T/P 126.99

(CONCRETE CRADLE) X19 PR. 6" WM. B/P 126.32 X7 PR. 6" SAN. B/P 127.84 EX. 15" COMB. T/P 120.17 (V.I.F.)

EX. 6" WM. B/P 127.58 (V.I.F.) X20 PR. 2" WM. B/P 126.13 X8 PR. 2" WM. B/P 127.74

EX. 15" COMB. T/P 118.11 (V.I.F.) PR. 2" WM. B/F 12...7 EX. 15" COMB. T/P 122.80 (V.I.F.) X21 PR. 12" STM. B/P 126.16

X9 EX. 6" WM. B/P 127.33 (V.I.F.) PR. 2" WM. T/P 124.66 PR. 15" STM. T/P 122.93

X22 PR. 12" STM. B/P 126.09 X10 EX. 6" WM. B/P 127.30 (V.I.F.) EX. 6" WM. 125.14

PR. 21" STM. T/P 126.39 X23 PR. 12" STM. B/P 126.06 (CONCRETE CRÁDLE)

EX. 6" WM T/P 125.12 X11 PR. 21" STM. B/P 124.18 EX. 15" SAN. T/P 122.12 (V.I.F.) X24 PR. 12" STM. B/P 127.71

PR. 6" SAN. T/P 126.21 X12 EX. 6" SAN. B/P 127.42 PR. 6" WM. T/P 127.84 (V.I.F.) X25 PR. 6" SAN B/P 127.78

PR. 21" STM. T/P 126.30

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(Station -0+50.00 - 1+50.00)

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HYDRANTS SHALL BE LOCATED A MINIMUM OF 5.0 FEET FROM THE BACK OF CURB, PROTECTIVE BOLLARDS SHOULD BE PROVIDED IN

ENGINEERS

CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

SEAL BRAD W. BRICKEL **ENGINEER**

PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835

Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit, Wayne County, Michigan

SHEET Storm Drainage Profile Plan



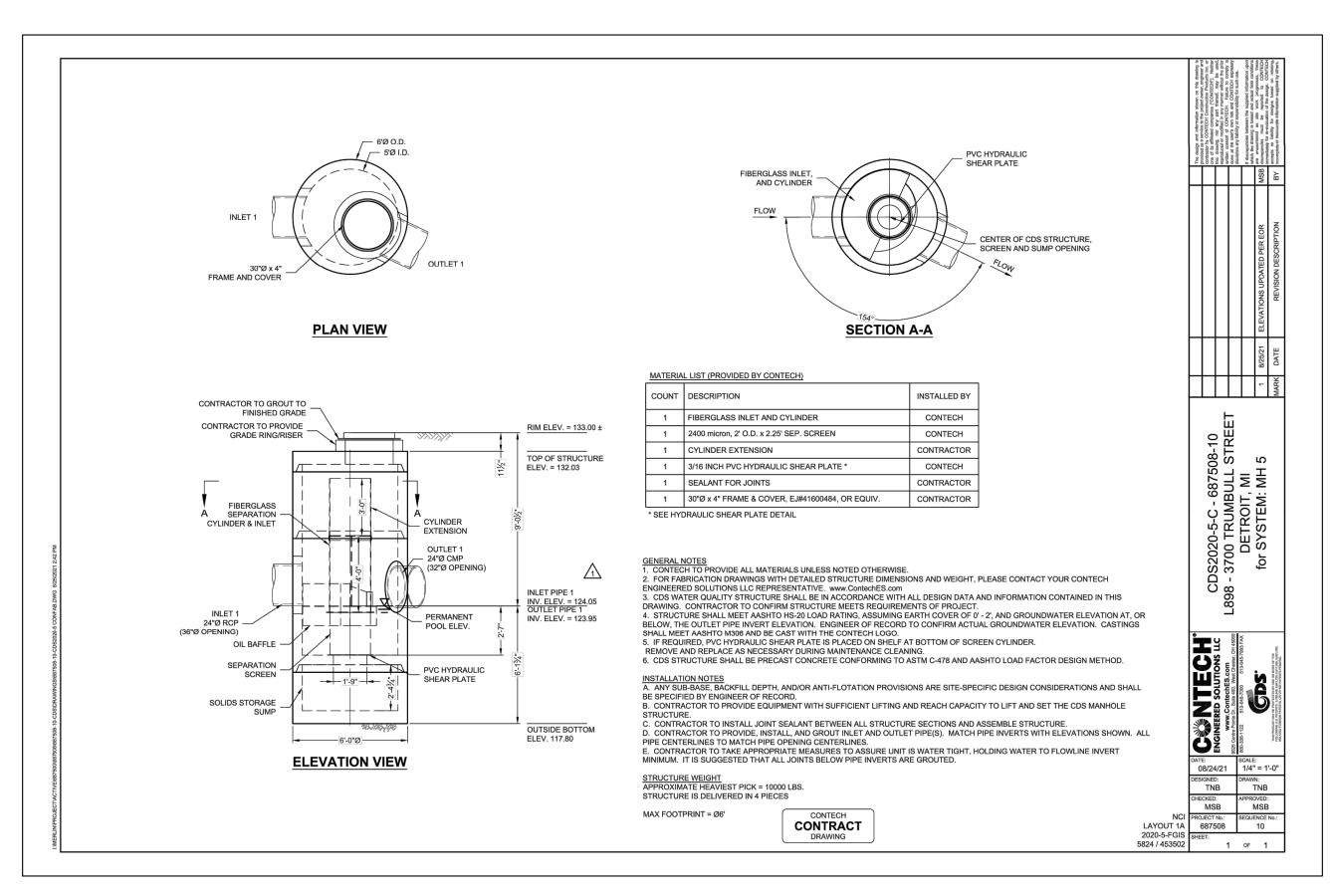
DATE	ISSUED/REVISED
08-27-21 I	SSUED FOR ENGINEERING REVIEW
09-20-21 I	revised grading
12-01-21 R	EVISED PER CITY
01-05-22 I	REVISED PER CITY
DRAWN	N BY:
J. Lav	vrey
DESIGN	NED BY:
D D.	ickel
B. BI	
	VED BY:

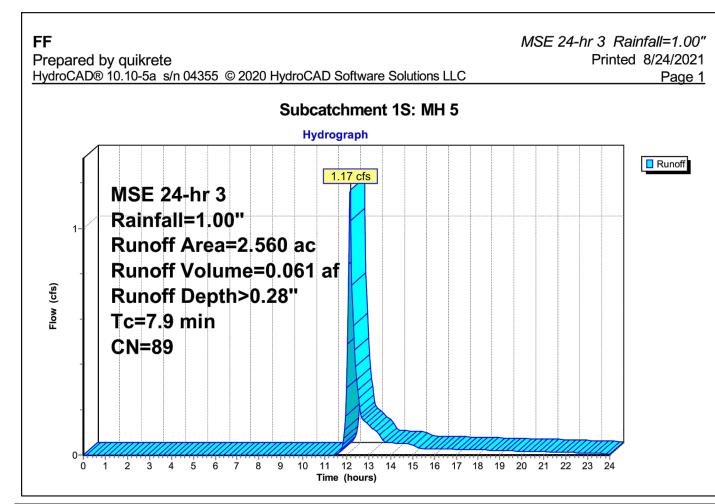
September 10, 2020

SCALE: 1'' = 30' / 1'' = 3'

NFE JOB NO. L898

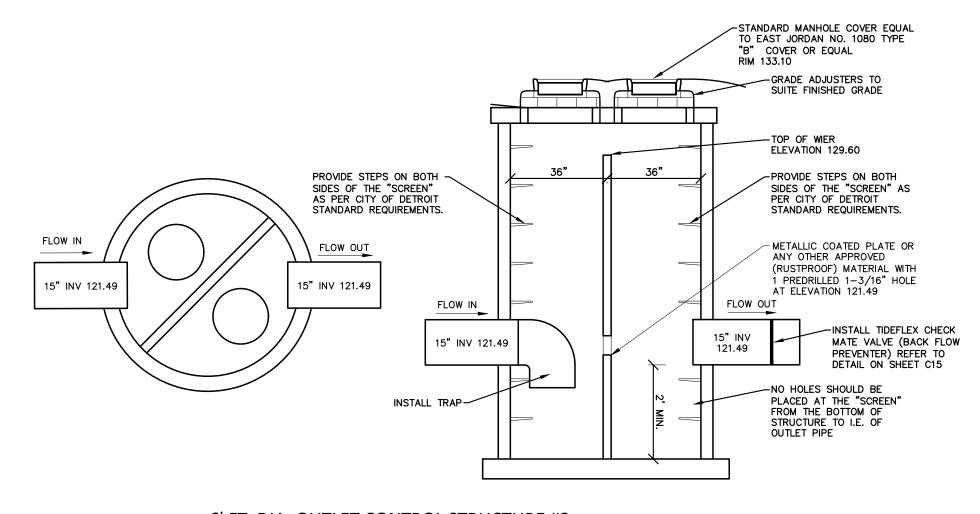
SHEET NO. **C10**





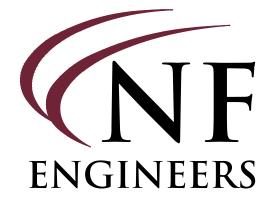
3700 Trumbull Street Detroit, MI Water Quality Unit											
AREA (acres): 2.56 CDS MODEL: 2020 WEIGHTED C: 0.80 PARTICLE SIZE (μm): 110 Tc (minutes): 7.9											
Rainfall Intensity ¹ (in/hr)	Percent Rainfall Volume ¹	Cumulative Rainfall Volume	Total Flowrate (cfs)	Removal Efficiency (%)	Incremental Removal (%)						
0.02	13.13%	13.1%	0.04	100.00	13.13						
0.04	11.36%	24.5%	0.08	99.61	11.32						
0.06	10.08%	34.6%	0.12	98.73	9.95						
0.08	7.49%	42.1%	0.16	97.84	7.33						
0.10	7.01%	49.1%	0.20	96.96	6.80						
0.12	5.37%	54.4%	0.25	96.07	5.16						
0.14	4.73%	59.2%	0.29	95.19	4.50						
0.16	4.13%	63.3%	0.33	94.30	3.89						
0.18	3.53%	66.8%	0.37	93.42	3.30						
0.20	2.99%	69.8%	0.41	92.53	2.77						
0.25	5.50%	75.3%	0.51	90.32	4.97						
0.30	4.47%	79.8%	0.61	88.11	3.94						
0.35	3.85%	83.6%	0.72	85.90	3.31						
0.40	2.16%	85.8%	0.82	83.7	1.8						
0.45	2.09%	87.9%	0.92	81.5	1.7						
0.50	1.31%	89.2%	1.02	79.3	1.0						
0.75	5.07%	94.3%	1.54	55.6	2.8						
1.00	2.58%	96.9%	2.05	41.7	1.1						
1.50	2.50%	99.4%	3.07	27.8	0.7						
2.00	0.51%	99.9%	4.10	20.8	0.1						
2.54	0.15%	100.0%	5.20	16.4	0.0						
		Prodicted		ual Rainfall Treated = emoval Efficiency =	89.63 95.3% 89.6%						

	T=	5 Minutes 38.4164*1	Г^0.2082	Time of Co						C	ity of Detr Storm S		ne County, Iculations						Project No: Project Nam		L898 Scripps Distr	ict	
	=	(12.3258+				-													Location:		3700 Trumbu	ıll Townhome	S
	n (Conc.) n (Pvc)	0.013 0.010		Manning's f Manning's f															Dated:		08/19/21		
Orainage Area Location)		To Manhole Number	Drainage Area (Acres)	Runoff Coefficient (C)	Equivalent Area (C * A)	Total Area (Sum C * A)	Time of Concentration (Minutes)	Rainfall Intensity (Inches/Hr.)	Actual Discharge (CFS)		Pipe Slope (% Slope)		Flow Full Velocity (Ft/Sec)	Time of Flow (Minutes)		H. G. Elev! Upper Endl (Feet)		Slope	Theoretical Velocity (Ft/Sec)			Invert Elev. Upper End (Feet)	Invert Ele Lower En (Feet)
Α	35	34	0.200	0.80	0.160	0.160	5.00	5.644	0.903	12	0.44	42	3.009	0.23	2.36	130.45	130.42	0.064	1.150	130.50	0.18	126.50	126.32
	34	32	0.000	0.80	0.000	0.160	5.23	5.581	0.893	12	0.44	83	3.009	0.46	2.36	130.42	130.37	0.063	1.137	131.50	0.37	126.32	125.95
	00	200	0.000	0.00	0.101	0.101	F 00	F.014	4 000	10	0.44	20	0.000	0.40	0.00	100.10	100.07	0.005	1 000	404.05	0.45	407.05	40740
В	33	32 31	0.230	0.80	0.184	0.184	5.00 5.69	5.644 5.461	1.039	12	0.44	33	3.009	0.18 0.19	2.36	130.40	130.37 130.28	0.085	1.322 2.392	131.25	0.15 0.15	127.25 125.85	127.10 125.70
С	31	29	0.170	0.80	0.136	0.344	5.89	5.412	2.598	15	0.44	55	2.978	0.13	3.65	130.37	130.26	0.278	2.332	131.50	0.18	125.60	125.70
-	0.		0.110	0.00	0.100	0.100	0.00	0.112	2.000	10	0.02		2.010	0.01	0.00	100.20	100.10	0.102	2.777	101.00	0.10	720.00	120.12
D	30	29	0.050	0.80	0.040	0.040	5.00	5.644	0.226	12	0.44	90	3.009	0.50	2.36	130.19	130.19	0.004	0.287	132.40	0.40	128.40	128.00
	29	25	0.000	0.80	0.000	0.520	6.19	5.337	2.775	15	0.32	38	2.978	0.21	3.65	130.19	130.12	0.185	2.261	132.40	0.12	125.42	125.30
E	28	25	0.080	0.80	0.064	0.064	5.00	5.644	0.361	12	0.44	30	3.009	0.17	2.36	130.14	130.14	0.010	0.460	131.50	0.13	127.50	127.37
F	27	26	0.050	0.80	0.040	0.040	5.00	5.644	0.226	12	0.44	66	3.009	0.37	2.36	130.14	130.14	0.004	0.287	132.50	0.29	128.50	128.21
G	26A	26	0.110	0.80	0.088	0.104	5.00	5.644	0.587	12	0.44	30	3.009	0.17	2.36	130.14	130.13	0.027	0.747	131.75	0.13	127.75	127.62
	26	25	0.000	0.80	0.000	0.104	5.37	5.546	0.799	12	0.44	24	3.009	0.17	2.36	130.14	130.13	0.050	1.017	133.20	0.13	127.75	127.62
	25	24	0.000	0.80	0.000	0.728	6.41	5.286	3.848	18	0.25	54	2.972	0.30	5.25	130.12	130.04	0.134	2.178	132.90	0.14	125.20	125.07
Н	24	21	0.080	0.80	0.064	0.792	6.71	5.215	4.130	18	0.25	32	2.972	0.18	5.25	130.04	129.99	0.155	2.337	132.00	0.08	124.97	124.89
	22	22	0.170	0.80	0.136	0.136	5.00	5.644	0.768	10	0.44	104	3.009	0.58	2.36	130.34	130.30	0.046	0.977	133.10	0.46	129.10	128.64
J	23	21	0.170	0.80	0.136	0.360	5.58	5.491	1.977	12	0.44	98	3.009	0.54	2.36	130.34	129.99	0.308	2.517	133.10	0.43	128.54	128.11
	21	20	0.000	0.80	0.000	1.152	6.89	5.174	5.960	21	0.44	29	3.019	0.16	7.26	129.99	129.95	0.142	2.478	133.40	0.43	124.79	124.73
K	20	19	0.170	0.80	0.136	1.288	7.05	5.138	6.618	21	0.21	35	3.019	0.19	7.26	129.95	129.89	0.174	2.751	132.75	0.07	124.63	124.56
	19	16	0.000	0.80	0.000	1.288	7.24	5.095	6.563	21	0.21	41	3.019	0.23	7.26	129.89	129.82	0.172	2.728	133.15	0.09	124.46	124.37
L	18	17	0.070	0.80	0.056	0.056	5.00	5.644	0.316	12	0.44	22	3.009	0.12	2.36	129.83	129.83	0.008	0.402	132.25	0.10	128.25	128.15
М	17	16	0.040	0.80	0.032	0.088	5.12	5.611	0.494	12	0.44	23	3.009	0.13	2.36	129.83	129.82	0.019	0.629	132.50	0.10	128.05	127.95
N	16	6	0.090	0.80	0.072	1.448	7.47	5.046	7.307	21	0.24	52	3.227	0.27	7.76	129.82	129.71	0.213	3.038	132.50	0.12	124.37	124.25
				0.00	0.400	0.400	F 00		0.700				0.000		0.00		100.00		0.000	400 50	0.00	100 50	
0	15	14	0.160	0.80	0.128	0.128	5.00	5.644	0.722	12	0.44	21	3.009	0.12 0.36	2.36	130.29	130.28 130.25	0.041	0.920	133.50	0.09	129.50	129.41 129.02
P	14	13	0.120	0.80	0.000	0.128	5.12 5.48	5.612 5.517	0.718 1.236	12	0.44	65 70	3.009	0.36	2.36	130.28	130.25	0.041	1.573	133.85	0.29	129.31 128.92	128.61
Q	12	8	0.080	0.80	0.064	0.288	5.86	5.418	1.560	12	0.44	87	3.009	0.48	2.36	130.17	130.00	0.192	1.987	132.50	0.38	128.51	128.13
_																							
R	11	10	0.090	0.80	0.072	0.072	5.00	5.644	0.406	12	0.44	24	3.009	0.13	2.36	130.02	130.02	0.013	0.517	132.40	0.11	128.40	128.29
S	10	9	0.050	0.80	0.040	0.112	5.13	5.608	0.628	12	0.44	15	3.009	0.08	2.36	130.02	130.02	0.031	0.800	132.50	0.07	128.19	128.12
I	9	7	0.050	0.80	0.040	0.152	5.22	5.586	0.849	12	0.44	30	3.009	0.17	2.36	130.02	130.00	0.057	1.081	132.50	0.13	128.02	127.89
 U	8	6	0.000	0.80	0.000 0.176	0.440	6.35 6.58	5.300 5.246	2.332 3.232	15 15	0.32	94	2.978	0.23 0.53	3.65	130.00	129.95 129.71	0.130 0.250	1.900 2.633	133.45 133.15	0.13	127.79 127.56	127.66 127.26
	6	5	0.000	0.80	0.000	2.064	7.74	4.989	10.298	24	0.30	38	3.944	0.16	12.39	129.71	129.63	0.207	3.278	133.65	0.11	124.16	124.05
	5	4	0.000	0.80	0.000	2.064	7.90	4.956	10.229	24	0.30	16	3.944	0.07	12.39	129.63	129.60	0.204	3.256	133.00	0.05	123.95	123.90
	4	3	0.000	0.80	0.000	2.064	7.97	4.942	10.201	96	0.10	33	5.738	0.10			129.60	0.000	0.203	132.85	0.03	121.55	121.52
	3	2	0.000	0.80	0.000	2.064	8.06	4.923	10.160	15	0.32	10	2.978	0.06	3.65			2.474	8.279	133.00	0.03	121.52	121.49
	2	1	0.000	0.80	0.000	2.064	8.12	4.911	10.137	15	0.32	16	2.978	0.09	3.65			2.463	8.260	133.10	0.05	121.49	121.44
V	37	36	0.060	0.95	0.057	0.057	5.00	5.644	0.322	12	0.32	8	2.566	0.05	2.02	128.98	128.97	0.008	0.410	132.20	0.03	128.20	128.17
w	38	39	0.060	0.95	0.057	0.057	5.00	5.644	0.322	12	0.44	9	3.009	0.05	2.36	129.41	129 41	0.008	0.410	132.20	0.04	128.65	128.61
***	50	55	5.000	0.00	0.001	0.001	0.00	5.074	0.022	16	0.77		5.003	0.00	2.30	(EV.T)	120.71	0.000	0.710	102.20	0.01	, 20.03	120.01
. v	40	EV	0.400	8.85			E 00	F 644	8 883		0.50	55											



5.644 0.697 12 0.58 23 3.455 0.11 2.71 127.03 127.02 0.038 0.888 132.65 0.13 126.35 126.22

6' FT. DIA. OUTLET CONTROL STRUCTURE #2



CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit, Wayne County, Michigan

Storm Calculations Plan



DATE ISSUED/REVISED 08-27-21 ISSUED FOR ENGINEERING REVIEW 09-20-21 REVISED GRADING 12-01-21 REVISED PER CITY 01-05-22 REVISED PER CITY

DRAWN BY: J. Lawrey **DESIGNED BY:**

B. Brickel APPROVED BY: B. Brickel

DATE: September 10, 2020

SCALE: N.T.S.

NFE JOB NO. L898

SHEET NO. **C11**

<u>L898- 3700 Trumbull Street, Detroit, MI</u> **Project Name & Location:** Water Quality Calculations - City of Detroit Methodology Calculate Post-Development Runoff Coefficient Runoff Coefficients ("C" Factors) Per DWSD Design Manual, Table 4-8 C-Pervious (Natural, Lawn, Landscape) C-Impervious (Roofs & Pavements) 0.95 Total Site Area ("A") 2.39 acres Area Pervious 0.52 acres Area Impervious 1.87 acres Weighted Runoff Coefficient "C" Calculate Water Quality Volumes (DWSD SMDM Table 4-5) Calculate Water Quality Volume (Vwq) - "Retention Volume" (1" Storm Event Volume) (Ref. Detroit Stormwater Design Manual Eqn. 4.11) $V_{wq} = 3630 * C * A$ 7015.0 cubic feet Calculate Extended Detention Volume (Ved) - "Alternative Compliance for Retention" $V_{ED} = 6897 * C * A$ (Ref. Detroit Stormwater Design Manual Eqn. 4.12) 13328.5 cubic feet **Proposed Water Quality Statement:** Water quality requirements for this site are proposed to be met via installation of a manufactured treatment device below

the "at-grade" parking area for this development. The treatment decvice shall be sized to remove a minimum of 80% of the total suspended solids (TSS) per New Jersey Dept. of Environmental Protection (NJDEP) standards compared to uncontrolled runoff. An Alternative Compliance is requested from D.W.S.D. to provide extended detention instead of onsite retention/infiltration due to the proposed development's adjacent building has a basement and low infilitration rate. In addition, the infiltration rate of 0.00 in/day was provided by the geotech report.

L898- 3700 Trumbull Street, Detroit, MI **Project Name & Location: Channel / Infrastructure Protection Calculations - City of Detroit Methodology** Calculate Pre-Development Peak flow for 2-year, 24-hour storm event: Calculate Difference in Pre- and Post-Development Runoff Coefficient Runoff Coefficients ("C" Factors) Per DWSD Design Manual, Table 4-8 C-Pervious (Natural, Lawn, Landscape) 0.30 C-Impervious (Roofs & Pavements) 0.95 **Pre-Development Site** 2.39 acres Total Site Area ("A") 2.34 acres Area Pervious 0.05 acres Area Impervious Pre-Development C 0.31 Post-Development Site Total Site Area ("A") 2.39 acres 0.52 acres Area Pervious Area Impervious 1.87 acres 0.81 Post-Development C ∆C (Post Dev - Pre-Dev) 0.495 Since Post-Development conditions increase the overall C-factor, calculate 2-yr, 24-hr volume for peak flow control V_{2-vr} =6897* Δ C*A (DWSD Design Manual Pg. 2-41) 8159.2 cubic feet Apply Rational Method to Determine pre-development peak flow runoff rate (Q=C*I*A) Calculate 2-yr, Rainfall Intensity "i" at Peak Flow Condition i = (38.4164*T^0.2082)/(12.3258 + D)^0.8405 (Ref. Detroit Stormwater Design Manual Eqn. 4.1) Γ = return period 2 years 5.00 minutes (default Tc for sites <5 acres) D = Storm Duration (minutes) 4.037 in/hr i = design rainfall intensity = 3.026 cfs $Q_{pre-2-yr} = C*i*A$ Channel Protection & Pre-Development Peak Flow Rate Statement: Since the post-development condition will increase the site runoff coefficient, this site is being designed to detain the 2year storm volume based on the increased run-off coefficient. This required detention volume will be included in the total

detention volume proposed for the site (to meet volume control and extended detention requirements). The post-

year, 24-hour storm.

development outlet rate will meet the maximum 0.15 cfs/acre requirement for outlet to combined sewer systems, which will also ensure the post-development site outlet rate is less than the pre-development peak flow rate calculated for the 2-

Post-Development Site 2.39 acres Total Site Area ("A") 0.81 Post-Development C Calculate Critical Storm Duration for 10 year event (D_{10}) : 0.15 cfs/ac Q_R = peak allowable discharge per acre = 0.81 C = Rational Coefficient = $D_{10} = 30.9*(Q_R/C)^-0.979$ (Ref. Detroit Stormwater Design Manual Eqn. 4.7) 160.8 min Calculate Design Rainfall Intensity (i): 10 years T = return period 160.8 min $D = critical storm duration = D_{10} =$ $= (38.42*T^0.208)/(12.33 + D)^0.841$ (Ref. Detroit Stormwater Design Manual Eqn. 4.1) = design rainfall intensity = 0.81 in/hr Calculate Required Storage Volume (Vn): A = tributary drainage area = 2.39 acre C = Rational Coefficient = 0.809 Dn = critical storm duration = D_{10} = 160.8 min | = rainfall intensity based on Dn = 0.81 in/hr Q_R = peak allowable discharge per acre = 0.15 cfs/ac $Vn = 60.5*Dn*C*A*I - 60*Dn*Q_R*A$ (Ref. Detroit Stormwater Design Manual Eqn. 4.9) 11825.6 cubic feet Vn = req'd detention volume (10 year) = Note: Extended detention is being proposed as a method of on-site alternative complinace for retention volume. The calculated volume for extended detention exceeds the calculated volume for the 10-year storm and will be used as the required volume for the site.

10 Year Detention / Flood Control Calculations - City of Detroit Methodology

L898- 3700 Trumbull Street, Detroit, MI

Project Name & Location:

Q_{act} = actual discharge for site =

Actual De-Watering Time

De-Watering Volume (Volume Ext. Det.)

V _{ED} = V (required) =	13328.5 cubic feet
Calculate Orifice Size (for Extented Detention):	
Top of Storage Elevation at Outlet Control Structure = Ts =	129.50
Center of Orifice Elevation = Center _{Orifice} =	121.39
Tributary Drainage Area = A =	2.39 ac
Q_R = peak allowable discharge per acre =	0.15 cfs/ac
Q_{ULT} = allowable discharge for site = $Q_R \times A$ =	0.36 cfs
Q_A = ext. det. discharge rate to provide 48-hour drawdown	0.08 cfs
C _{orifice} (per table 7-3) =	0.614 circular
g = gravitational constant =	32.20 ft/s2
h (ave) = Ts - Center _{Orifice} $*0.5$ = hyd. head for 50% of detention	4.055 ft
Area _{Orifice} = $Q_A/(C \times (2*g*h)^0.5) =$	0.0078 sft
Diameter of Orifice =	1.1939 in
Therefore, use a	1.19 inch diameter hole in weir wall. (1-3/16")
Calculate Dewatering Time (for Extended Detention):	
Actual Outlet Size=	0.008 Sft

U.G. DETENTION SYSTEM - DETERMINE STORAGE VOLUME PROVIDED	
Total Linear Feet of Proposed U.G. Detention Pipe	233.0 feet
Calculate Pipe Cross-Sectional Storage Area	
Proposed Pipe Diameter	96 inches
Proposed Pipe Cross-Sectional Area	50.27 square feet
Total Storage Provided in Pipe	11,712 cubic feet
Calculate Porous Stone Trench Storage Area	
Proposed Porous Stone Trench Width	11.00 feet
Proposed Porous Stone Trench Height (Above Pipe Invert)	8.00 feet
Cross-Sectional Area of Trench	88.00 square feet
Subtract Pipe Cross-Sectional Area	-50.27 square feet
Net Cross-Sectional Pourous Stone Trench Area	37.73 square feet
Minimum Stone Trench Backfill Porosity (%)	25 %
Effective Storage Provided in Trench Backfill Cross-Section	9.43 square feet
Total Storage Provided in Porous Stone Trench	2,198 cubic feet

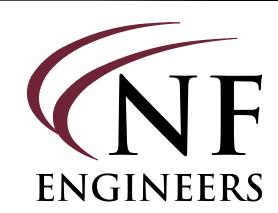
0.077 cfs

13328.5 cubic feet

47.87 hours

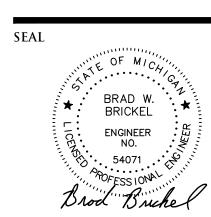
Table 1 - Site Conditions Summary

<u>Criteria</u>	<u>Value</u>	<u>Unit</u>
New or Replaced Impervious Area	1.87	Acres
Construction Activity Area	2.39	Acres
Measured Infiltration Rate	0	In/Hr
Existing Site Runoff Coefficient	0.31	unitless
Proposed Site Runoff Coefficient	0.81	unitless
Regulated Area	2.39	Acres



CIVIL ENGINEERS Land Surveyors Land Planners

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



PROJECT
Scripps District
3700 Trumbull

CLIENT
3701 Lincoln, LLC
6905 Telegraph Road,
Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION

Part of Hodges Bros.

Subdivision of Outlots

98, 99, 102 & 103

Woodbridge Farm

City of Detroit,

Wayne County, Michigan

SHEET
Storm Water Management
Plan



DATE ISSUED/REVISED

08-27-21 ISSUED FOR ENGINEERING REVIEW

09-20-21 REVISED GRADING

12-01-21 REVISED PER CITY

01-05-22 REVISED PER CITY

DRAWN BY:

J. Lawrey

DESIGNED BY:

B. Brickel

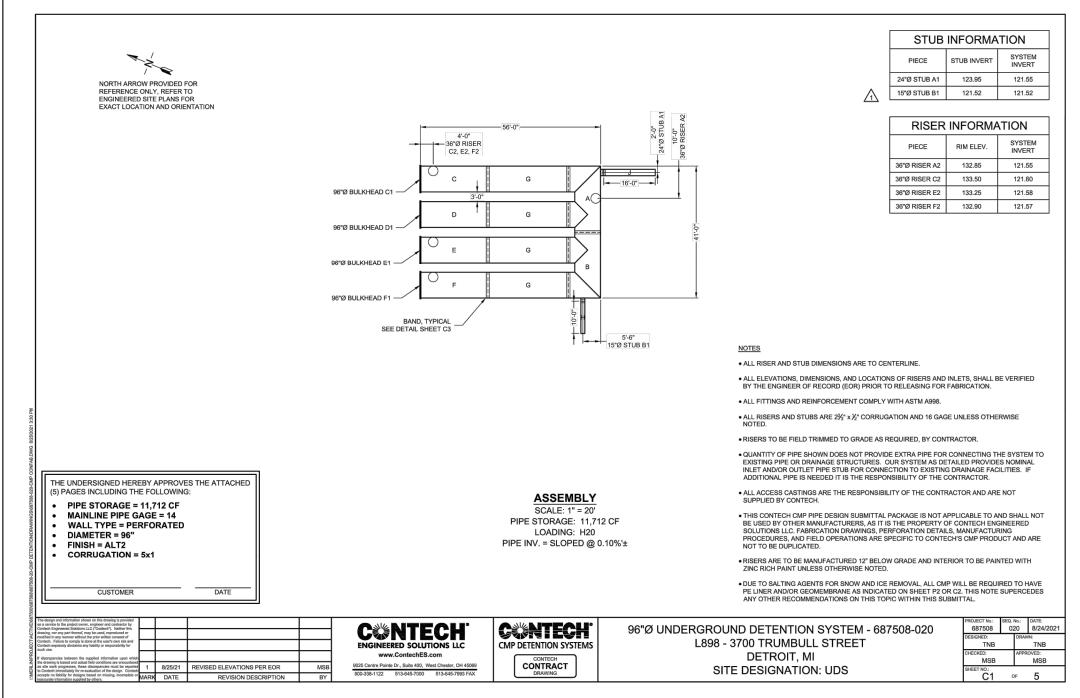
APPROVED BY:

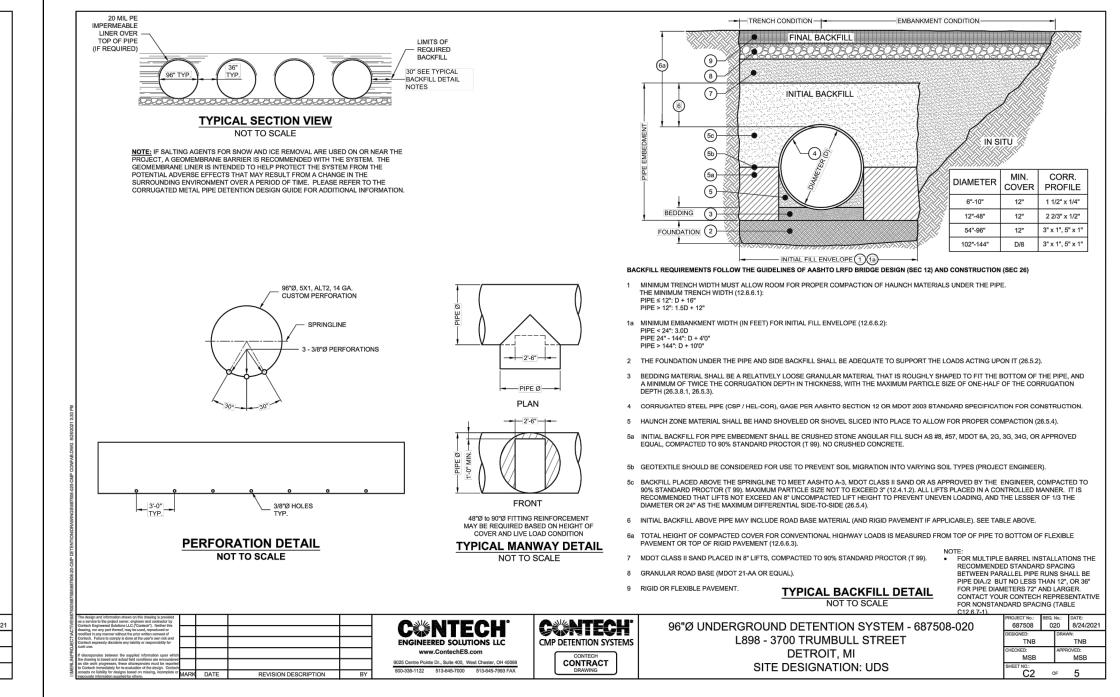
B. Brickel

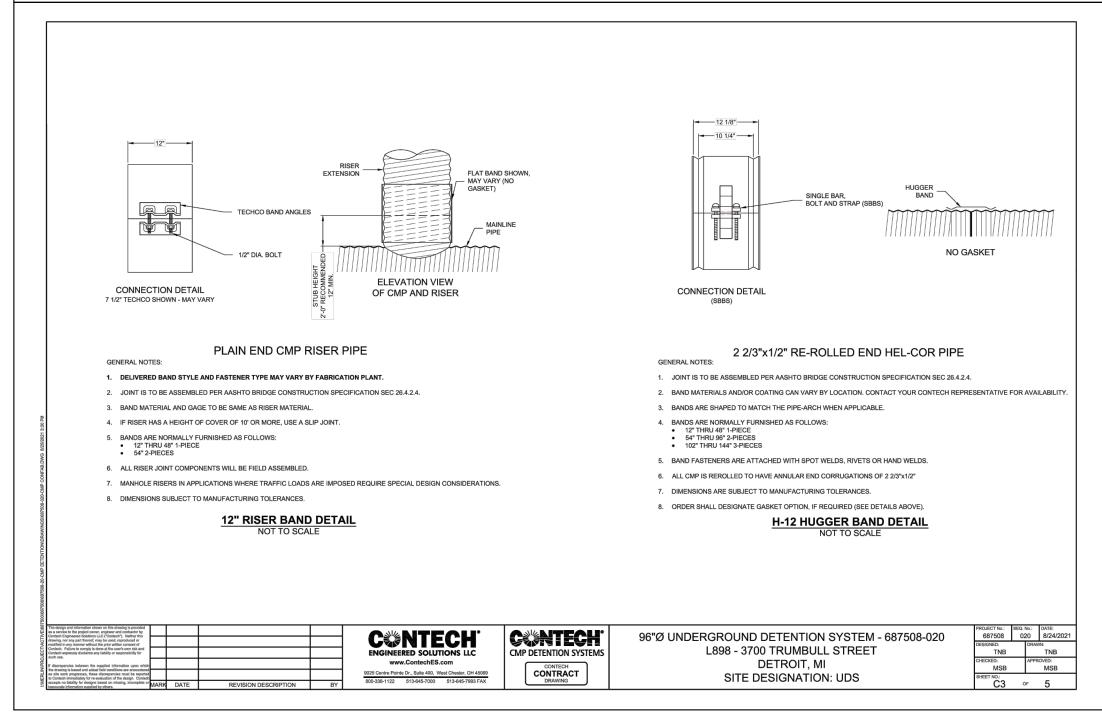
September 10, 2020

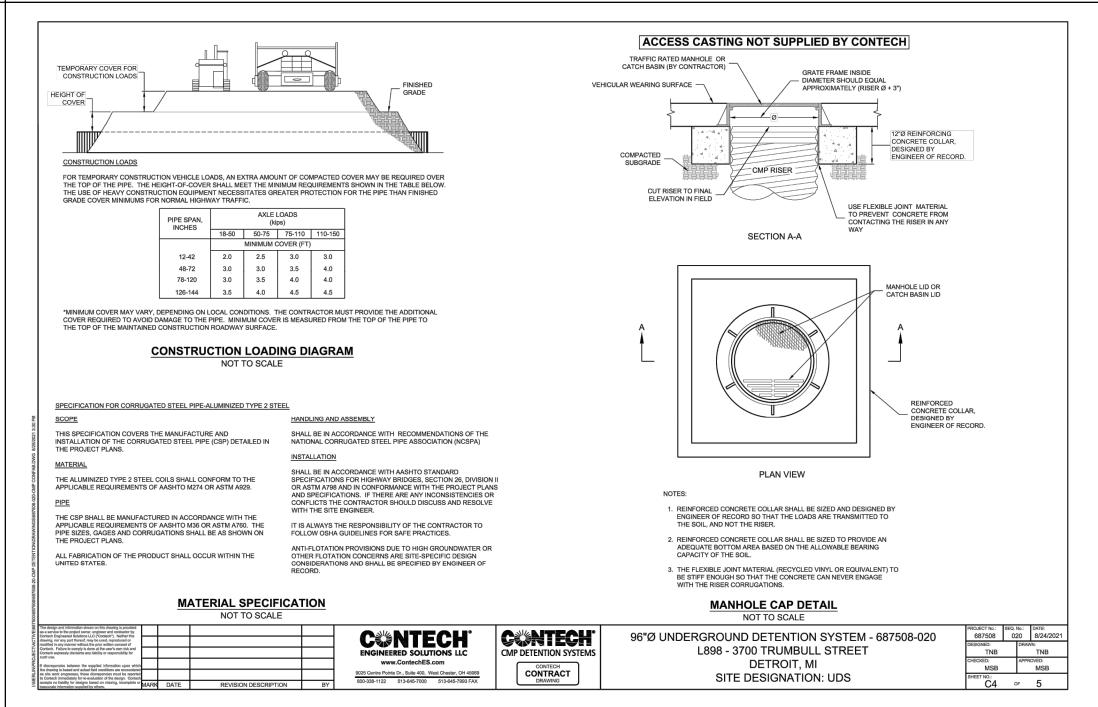
SCALE: N.T.S.

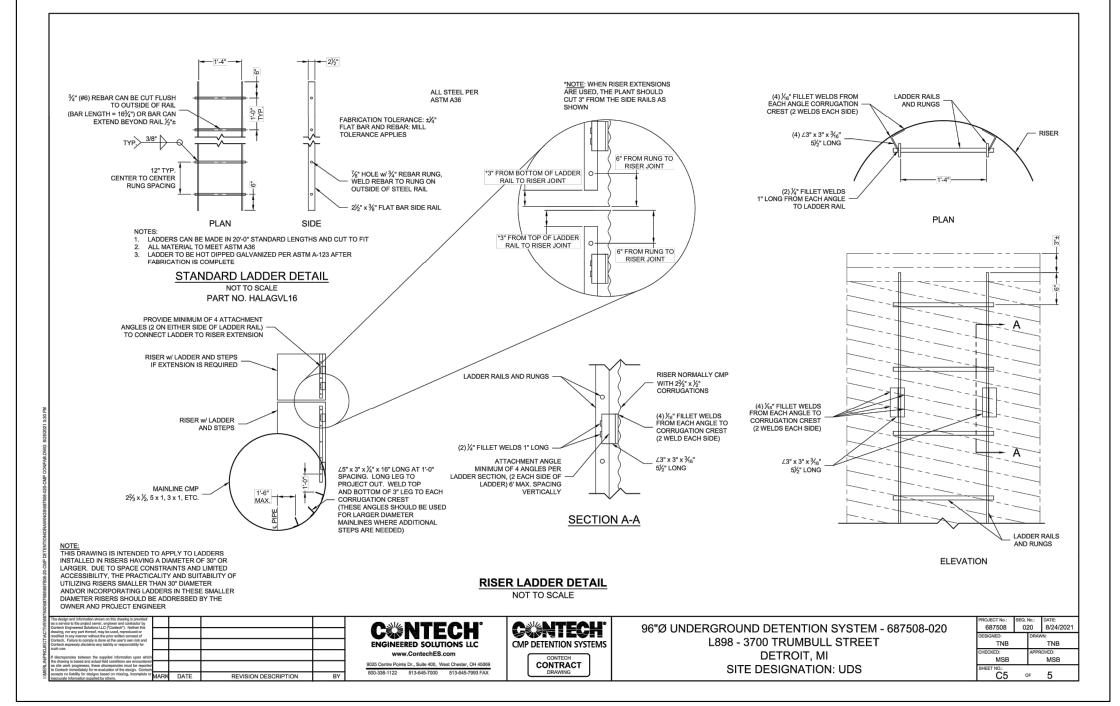
NFE JOB NO. SHEET NO. **C12**

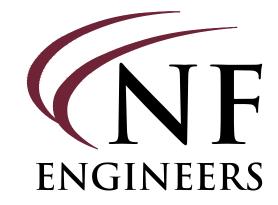






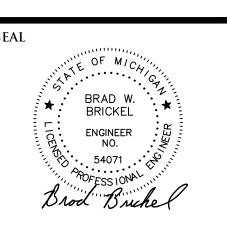






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PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

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PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit, Wayne County, Michigan

SHEET

Detention System Detail



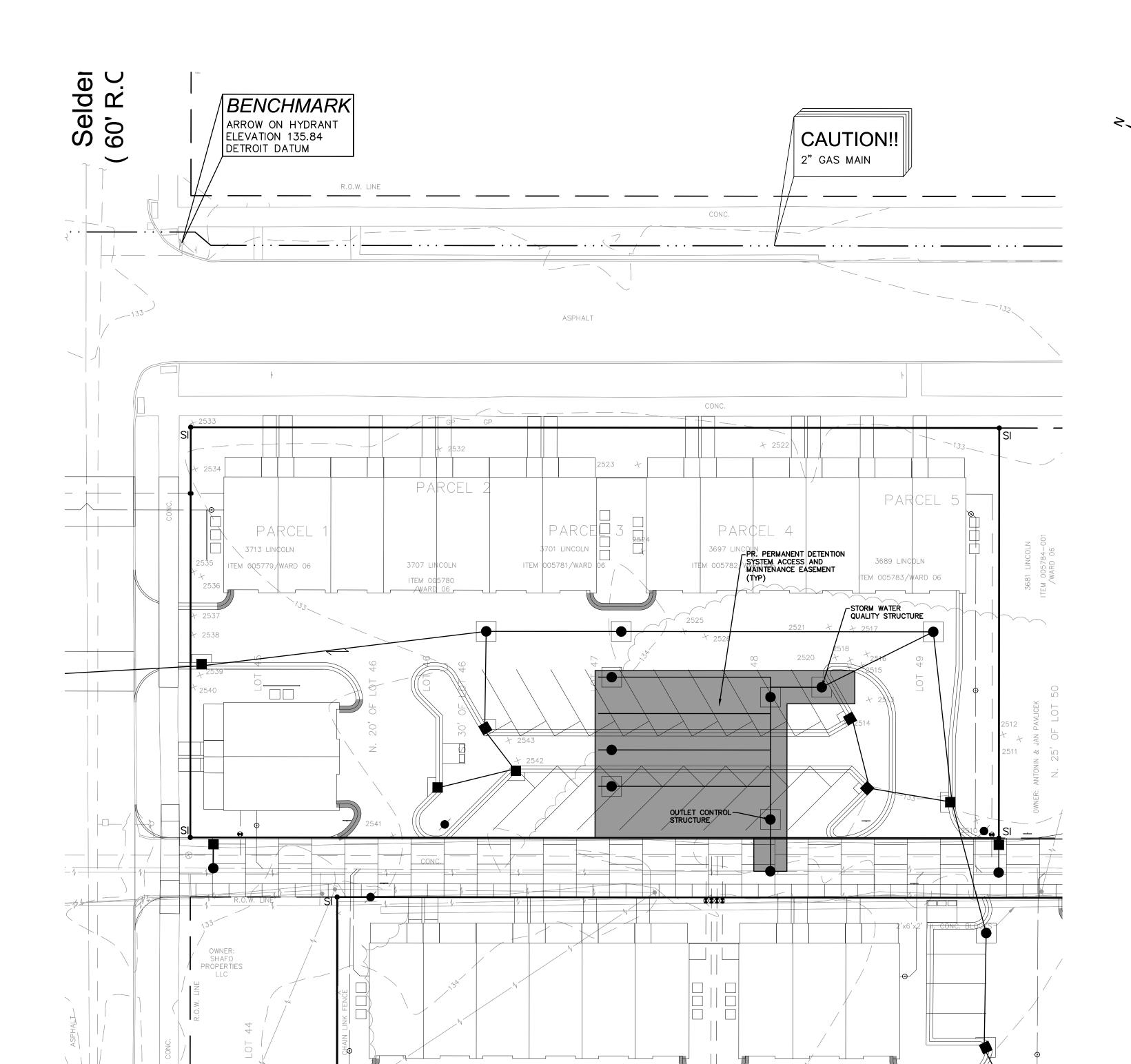
	Call before you dig.
DATE	ISSUED/REVISED
08-27-21 ISS	SUED FOR ENGINEERING REVIEW
09-20-21 RE	EVISED GRADING
12-01-21 RE	VISED PER CITY
01-05-22 RE	EVISED PER CITY
DRAWN	BY:
J. Law	rey
DESIGN	ED BY:
B. Brio	ekel
APPROV	ED BY:
B. Brio	ekel

NFE JOB NO. SHEET NO. L898

September 10, 2020

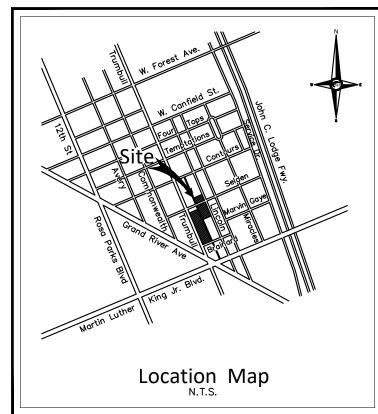
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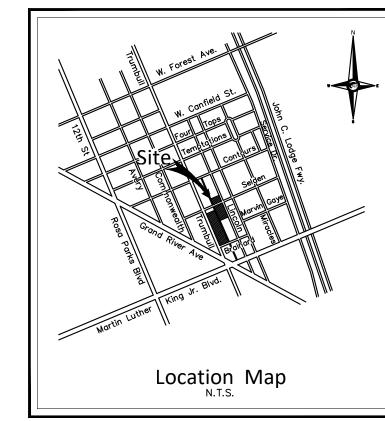
C13



3714 TRUMBULL

. ITEM 005919 . WARD 06



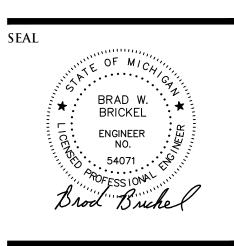


STORM WATER MA		TABLE		TERN	/I MA	INTE	NAN	CE SCHEDULE
MAINTENANCE ACTIVITIES	SYSTEM COMPONENTS	Storm Collection System (Sewers, Swales, Catch Basins, Manholes)	Manufactured Treatment System	Inlets to Treatment & Detention Systems	Underground Detention System	Flow Restrictor Structure & Outlet Pipe	Pavement Areas	FREQUENCY
Monitoring/Inspection Inspect for Sediment Accumulation		Χ	Χ	Χ	Χ		2-4 times/year*	
Inspect for Floatables, Dead Vegetation & D	Х	X	X	X	X		2-4 times/year & After Major Events	
Inspect for Integrity of System	Х	Χ	Χ	Χ	Χ		2-4 times/year & After Major Events	
Inspect All Components During Wet Weathor	Х	X	Χ	Χ	Χ		2-4 times/year	
Ensure Maintenance Access Remain Open	/Clear	Χ	Χ	Χ	Χ	Χ		2-4 times/year
Inspect Tideflex Checkmate Check Valve (renter manhole)	emove hood and					X		Annually
Preventative Maintenance								
Remove Accumulated Sediments		Χ	Χ	Χ	Χ	Χ		As needed*
Remove Floatables, Invasive & Dead Vege	ation & Debris	Х	Χ	Χ	Χ	Χ		As Needed
Sweeping of Paved Surfaces							Χ	As Needed
Replace StormFilter Cartridges			Χ					Every 1-5 years, depending on sediment loading**
Remedial Actions								
Repair/Stabilize Areas of Erosion		Χ						Annually, or as needed
Structural Repairs		Χ	Χ	Χ	Χ	Χ		As Needed
Make Adjustments/Repairs to Ensure Prope	er Functioning	Χ	Χ	Χ	Χ	Χ		As Needed
Manage Nuisance Wildlife			Χ		Χ			Biweekly, or as needed
NOTES: *Manufactured Treatment Syste								
inches, or if sediment resuspension is obse			O&M				tional r	maintenance considerations
	ROPERTY OWNER: obertson Brothers				GINE		s Engi	neers
Detroit, MI 48208 69	005 Telegraph Road oomfield Hills, MI r. Tim Loughrin	Suite 2	200	467 Por Cor	77 Wo ntiac, l	oodwa MI 483 Brad	ard Ave 342 Bricke	e. el



CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

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PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit, Wayne County, Michigan

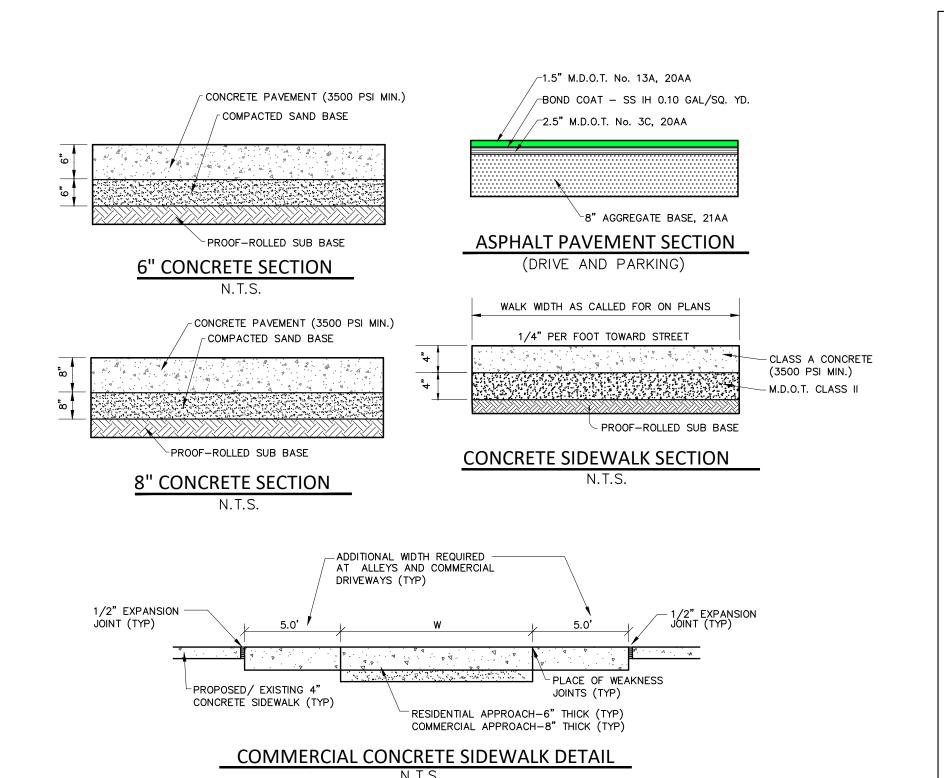
Post-Construction Storm Water Management Plan

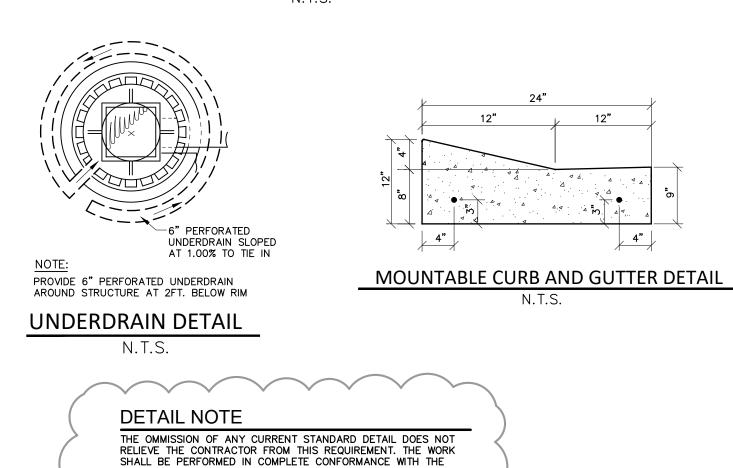


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01-05-22 RE	VISED PER CITY
DRAWN	BY:
DRAWN J. Lawi	
	rey
J. Lawı	rey ED BY:
J. Lawı designi	rey ED BY: ekel

September 10, 2020 SCALE: 1'' = 30'

NFE JOB NO. SHEET NO. L898 **C14**





CURRENT DWSD STANDARD SPECIFICATIONS AND DETAILS.

GENERAL PAVING NOTES

CONCRETE CURB UNLESS OTHERWISE NOTED.

INDICATED ON THE PLANS.

INDICATED ON THE PLANS.

CONCRETE:

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE

STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

GALLON PER SQUARE YARD; MAXIMUM 2 INCH LIFT.

PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED

WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6"

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN

SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION

FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF

PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS

EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

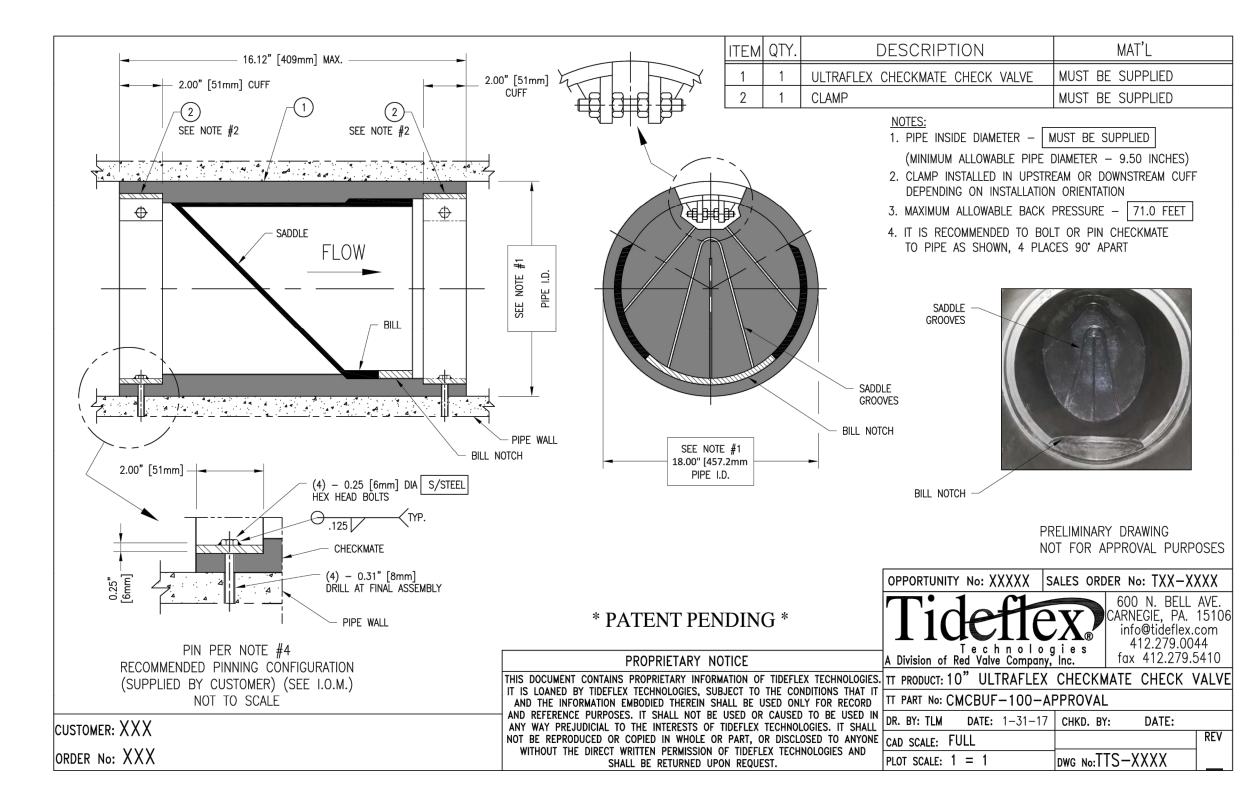
FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED

PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE

BASE COURSE - MDOT BITUMINOUS MIXTURE NO. 1100L, 20AA; SURFACE

COURSE - MDOT BITUMINOUS MIXTURE NO. 1100T, 20AA; ASPHALT CEMENT



BEST MANAGEMENT PRODUCTS, INC.

SNOUT OIL & DEBRIS STOP

DRAWING NUMBER: IN-SN

INSTALLATION DIAGRAM (TYPICAL)

U.S.PATENT #6126817 ADDITIONAL PATENTS PEN

Structure Wall

Outflow Pipe

Position hood so that bottom

flange of SNOUT is 1/2 the

pipe diameter below the

bottom of the pipe for pipes

>12" id. For pipes < 10" id

place snout 6" (min.) below

Detail A

Expansion Cone

(narrow end out)

Installation Note:

bottom of pipe.

Anti-siphon device

PVC Adapter Assembly for

Anti-siphon vent

(Adapter, nut, and 2 gaskets)

Anchor w/ Bolt

See Detail A

1/2 D (see note)

Foam Gasket w/

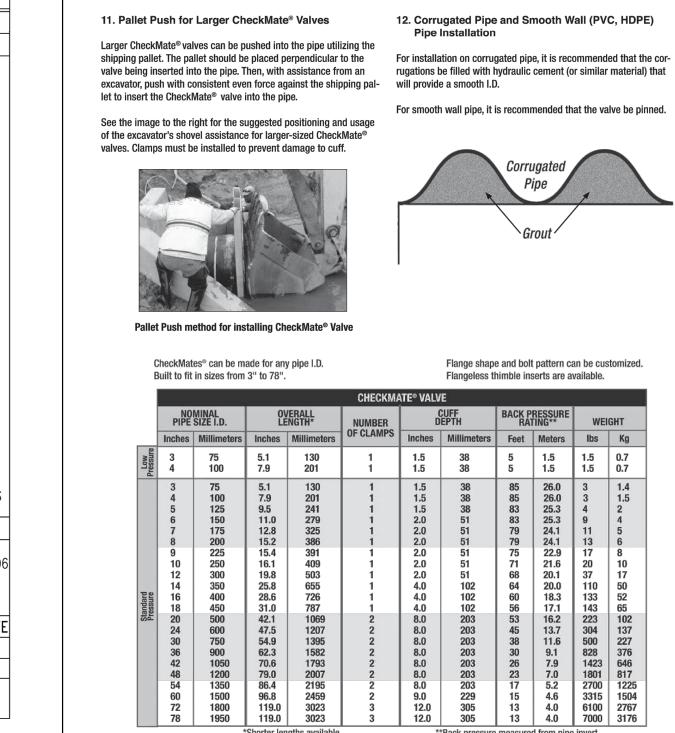
(trim to length)

Snout flange

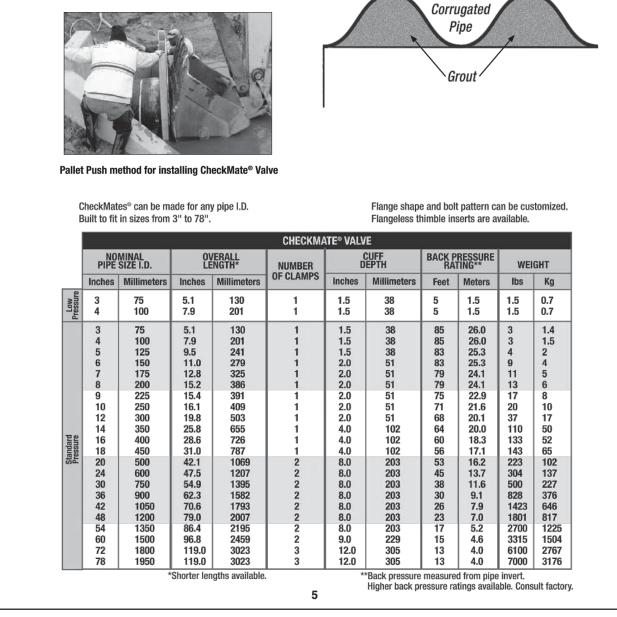
Gasket on snout flange

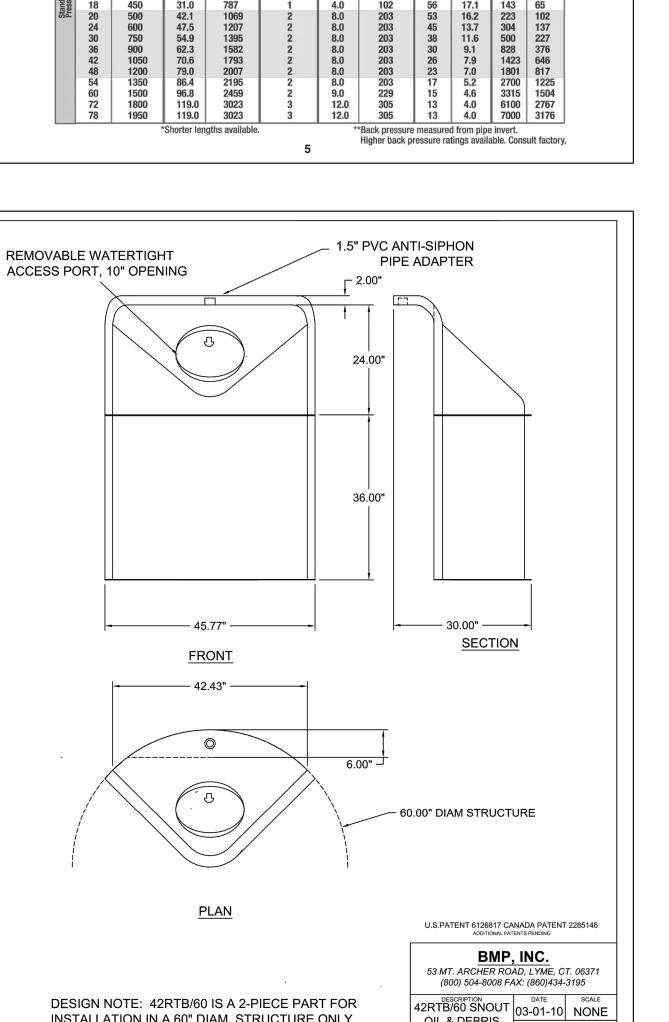
(see Detail B)

Detail B



DESIGN NOTE: 42RTB/60 IS A 2-PIECE PART FOR INSTALLATION IN A 60" DIAM. STRUCTURE ONLY





OIL & DEBRIS

STOP

42RTB/60



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LAND PLANNERS

SEAL BRICKEL ENGINEER

PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts

Phone: 248.302.8662 PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit,

Wayne County, Michigan SHEET

Additional Details



ISSUED/REVISED 08-27-21 ISSUED FOR ENGINEERING REVIEW 09-20-21 REVISED GRADING 12-01-21 REVISED PER CITY 01-05-22 REVISED PER CITY

DRAWN BY: J. Lawrey **DESIGNED BY:** B. Brickel APPROVED BY:

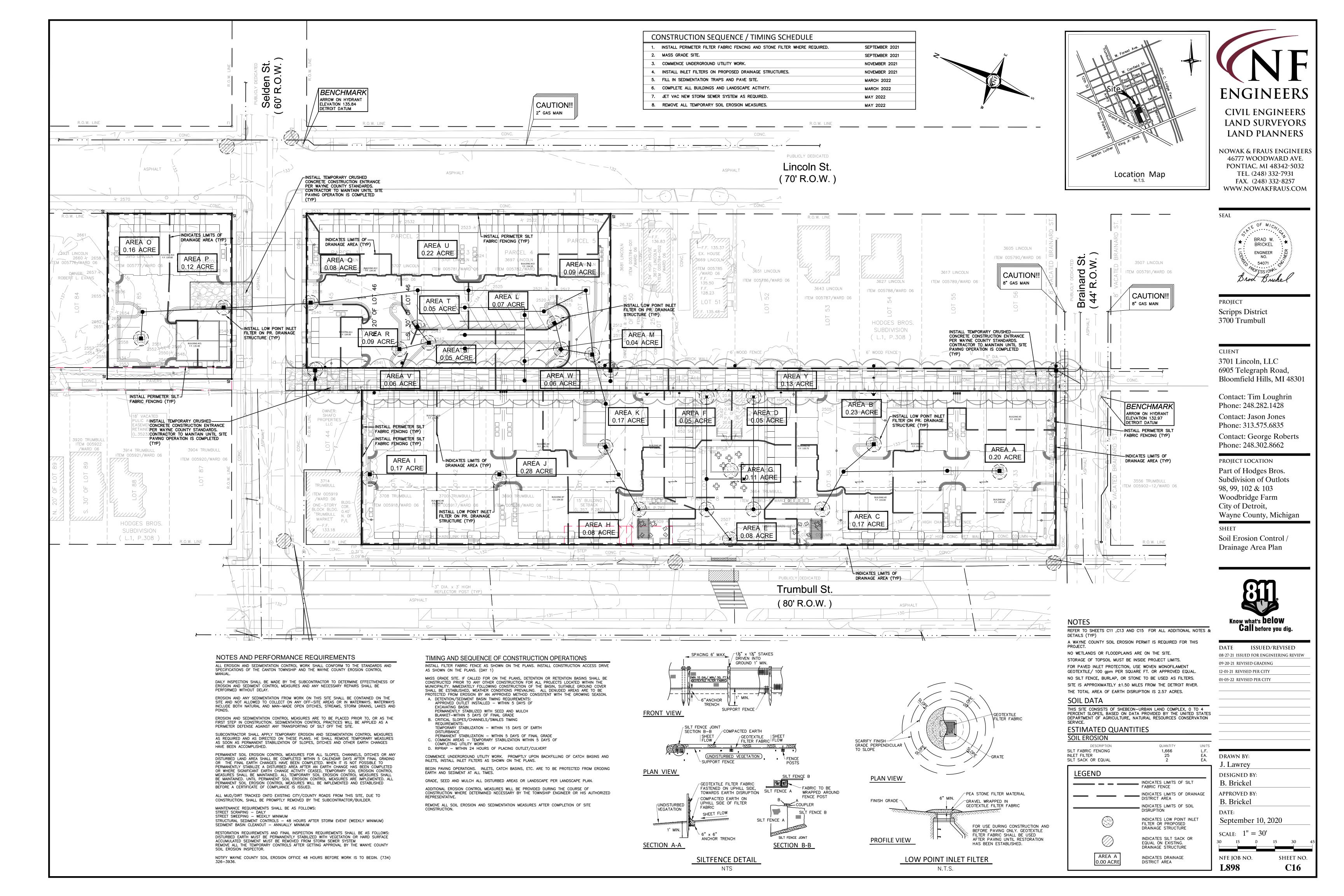
B. Brickel

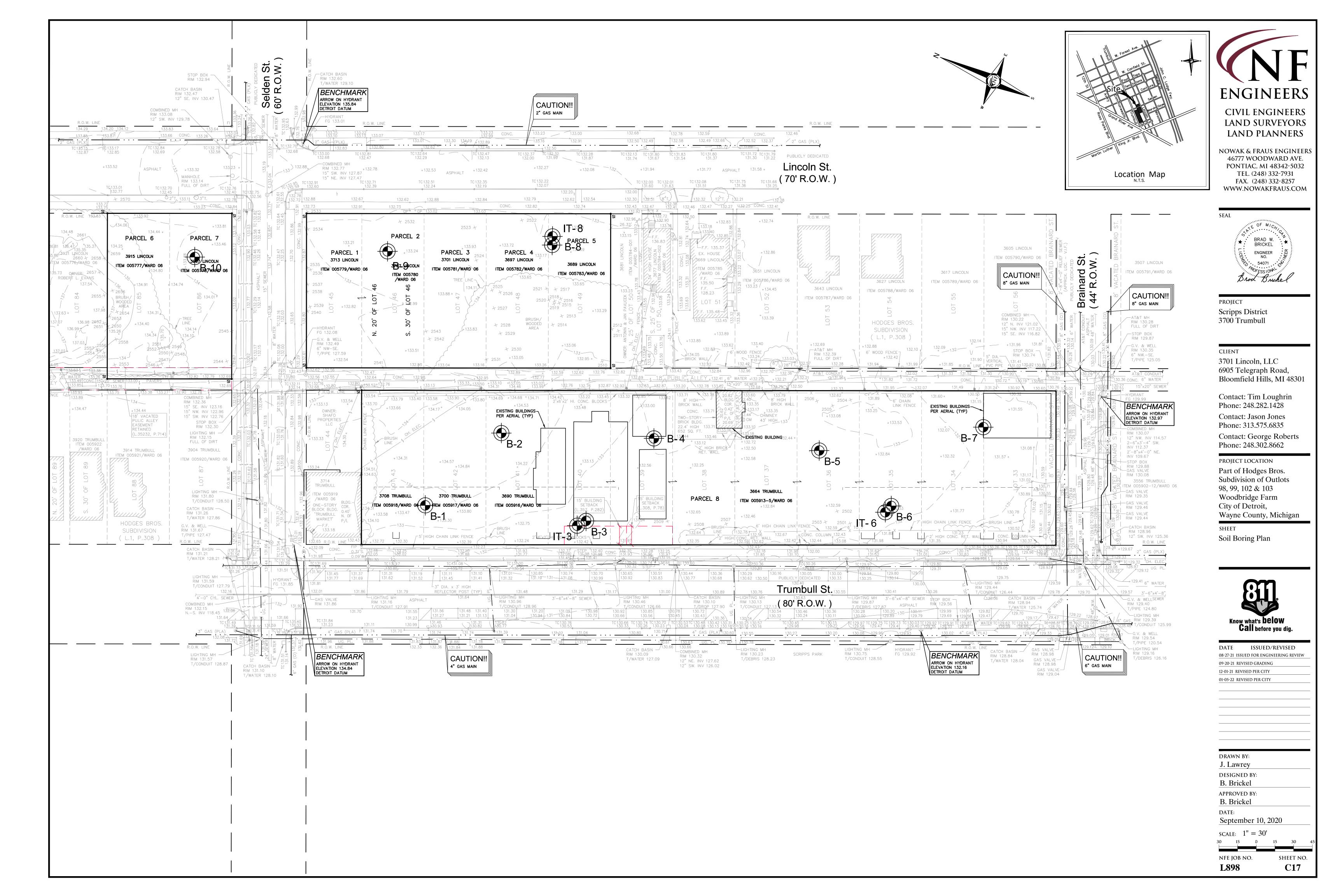
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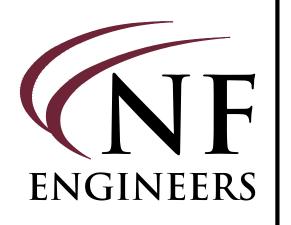
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SHEET NO.

NFE JOB NO.



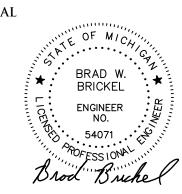




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SEAL



PROJECT
Scripps District
3700 Trumbull

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3701 Lincoln, LLC
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Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION

Part of Hodges Bros.

Subdivision of Outlots

98, 99, 102 & 103

Woodbridge Farm

City of Detroit,

Wayne County, Michigan

SHEET
Soil Boring Logs

BORING B10

BORING DEPTH: 20 FEET

PAGE 1 OF 1



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DESIGNED BY:

B. Brickel

APPROVED BY:

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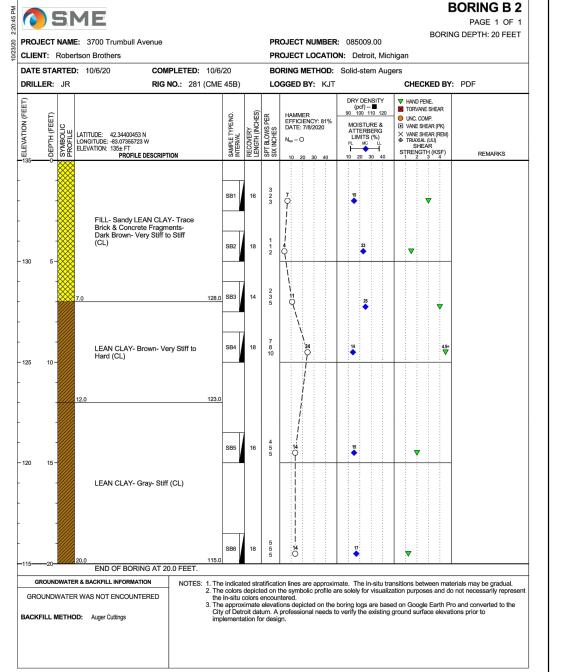
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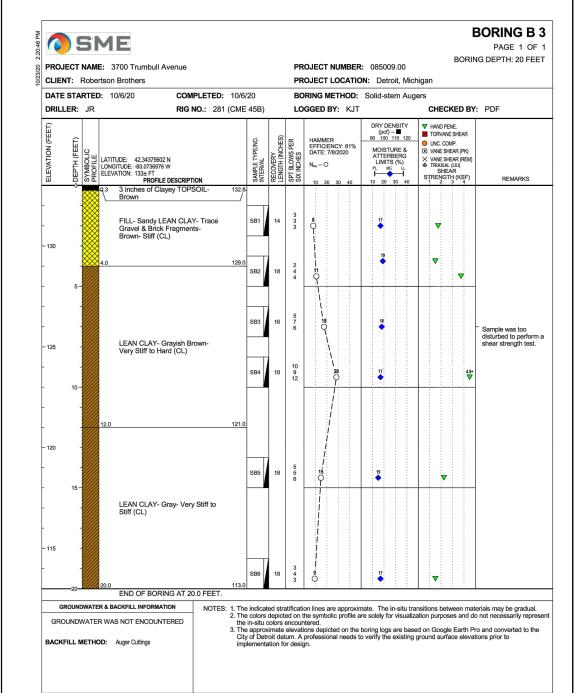
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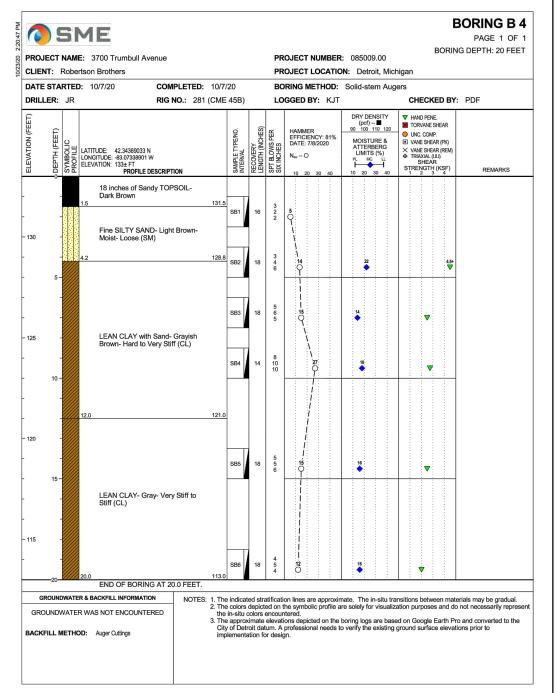
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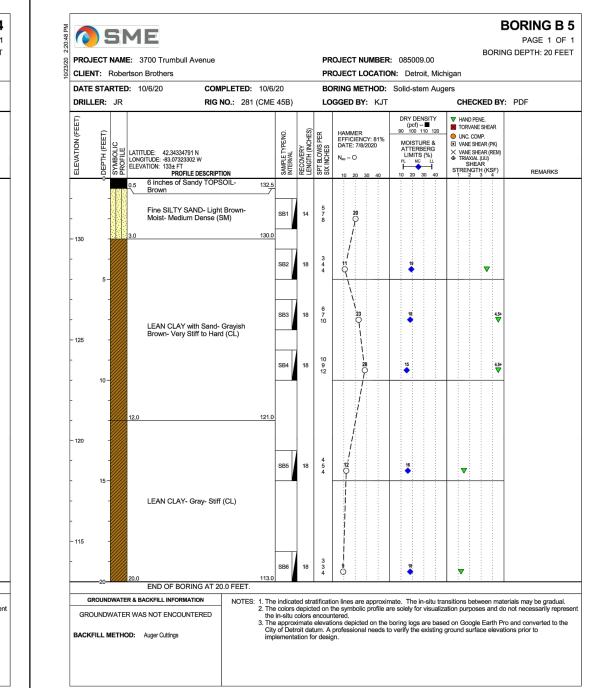
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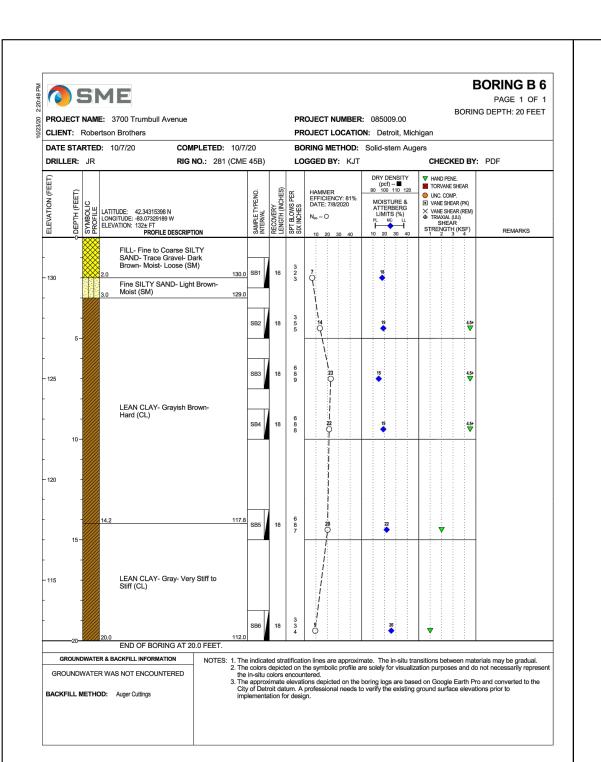
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BORING B 1

BORING DEPTH: 20 FEET

PROJECT LOCATION: Detroit, Michigan

BORING METHOD: Solid-stem Augers

PAGE 1 OF 1

SME

CLIENT: Robertson Brothers

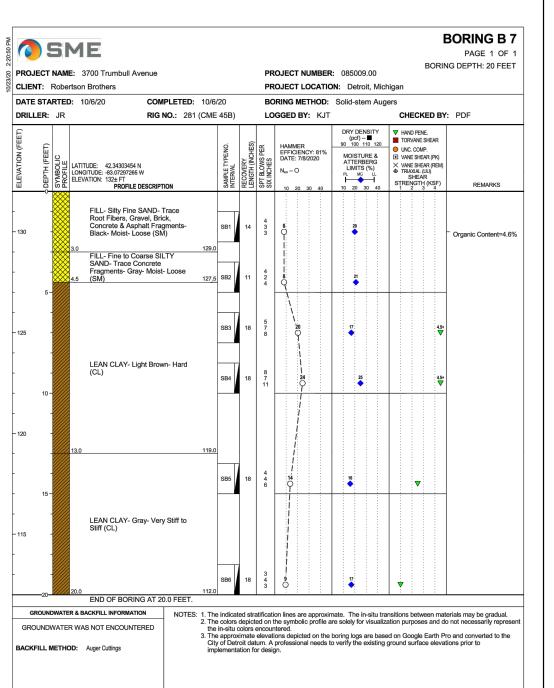
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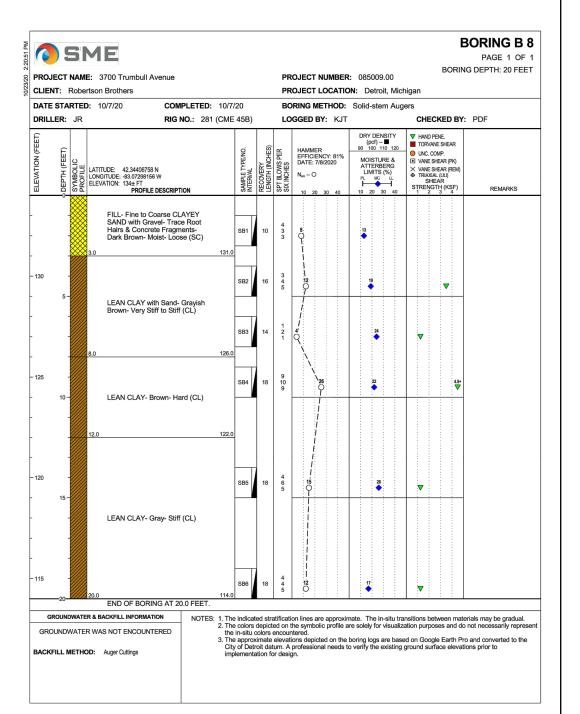
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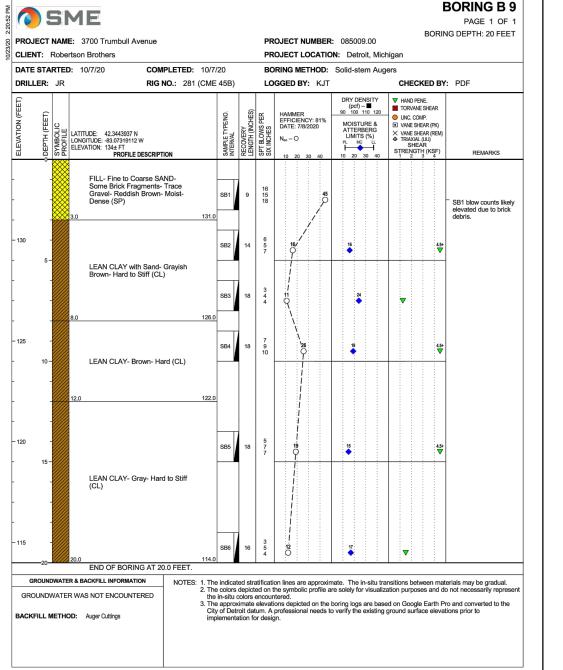
PROJECT NAME: 3700 Trumbull Avenue

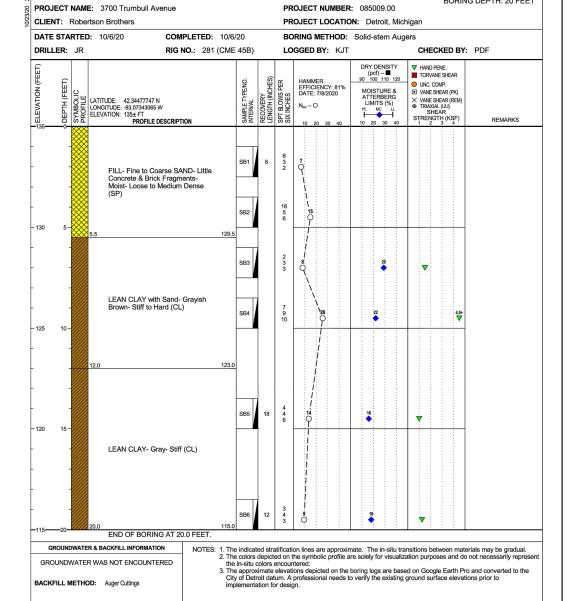
COMPLETED: 10/7/20

LEAN CLAY- Brown- Very Stiff

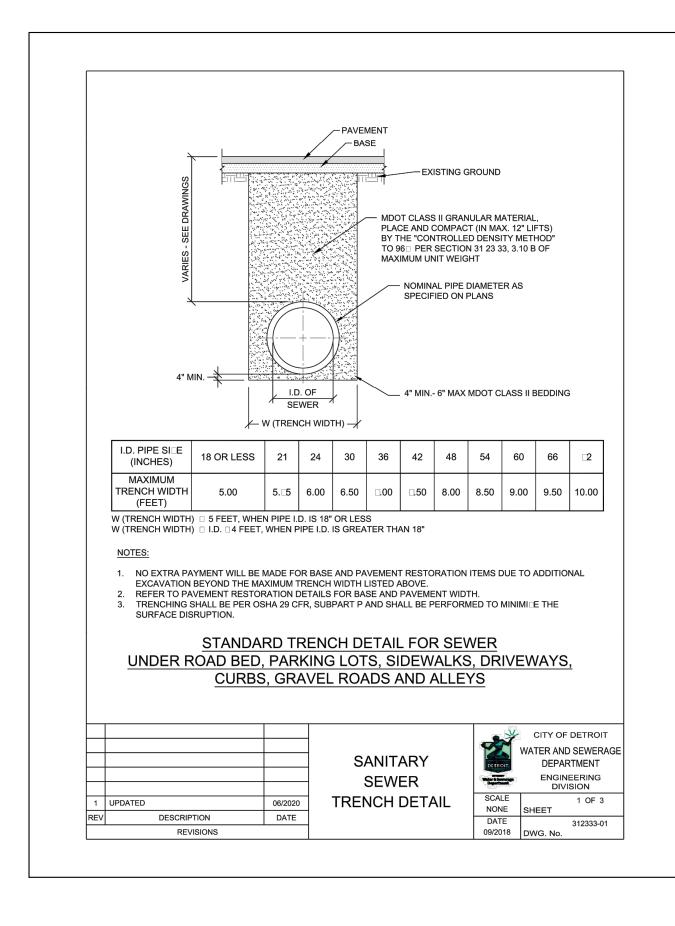


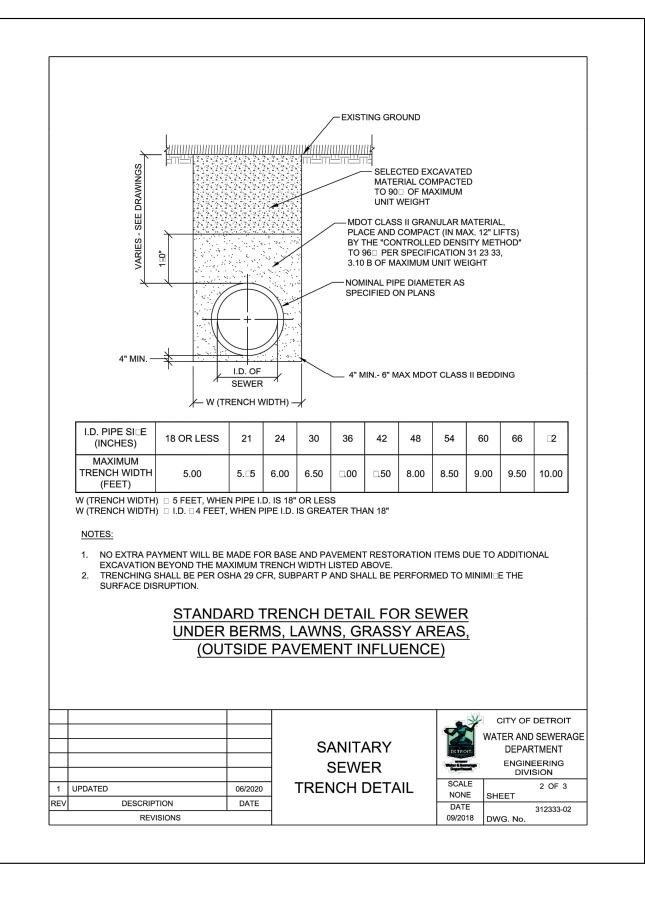


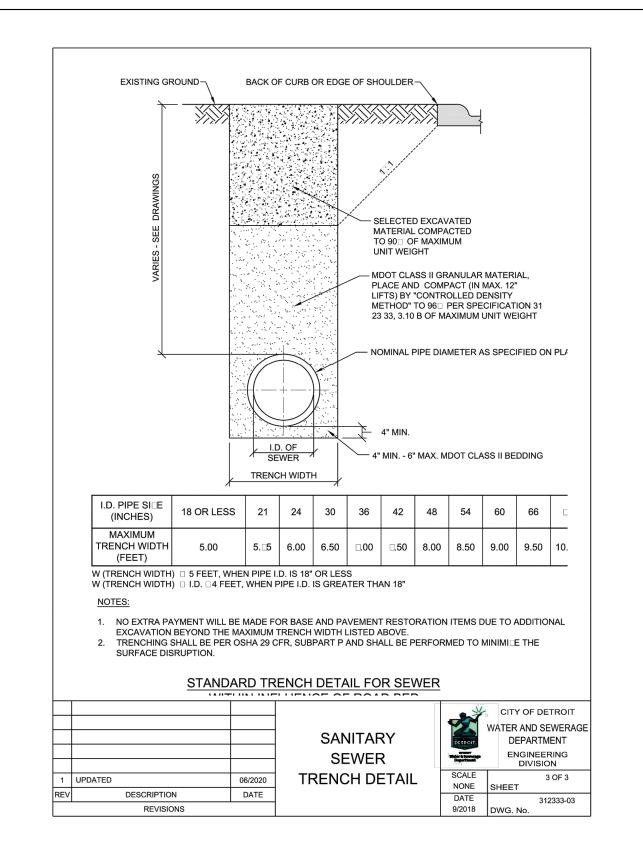


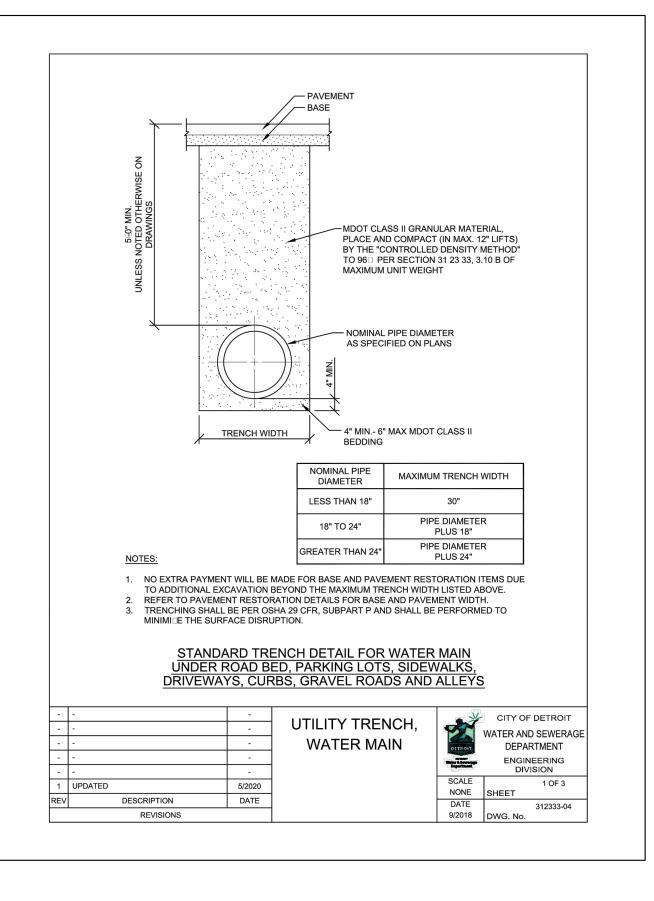


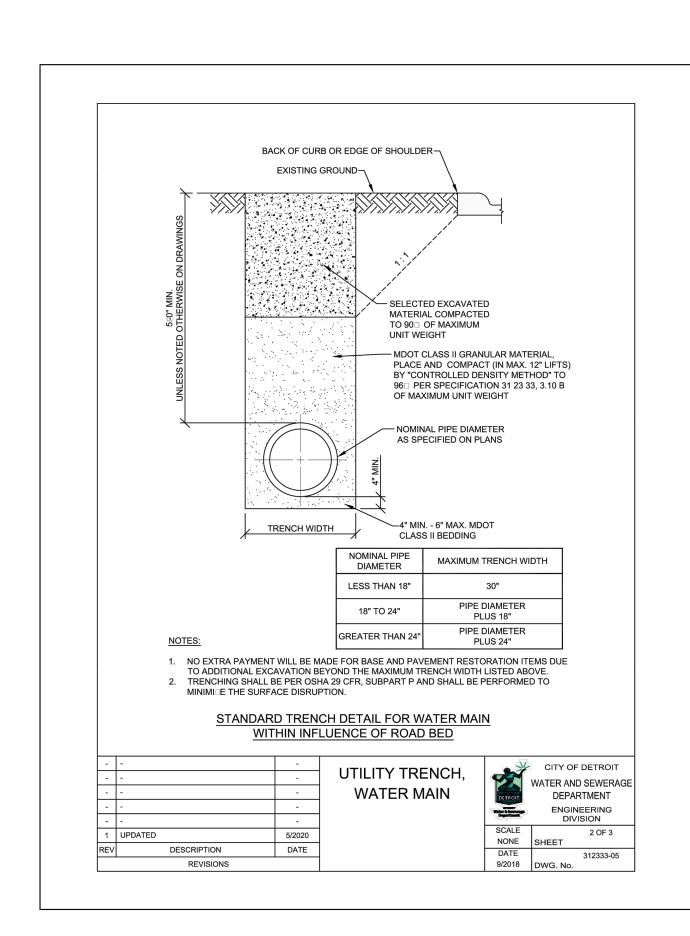
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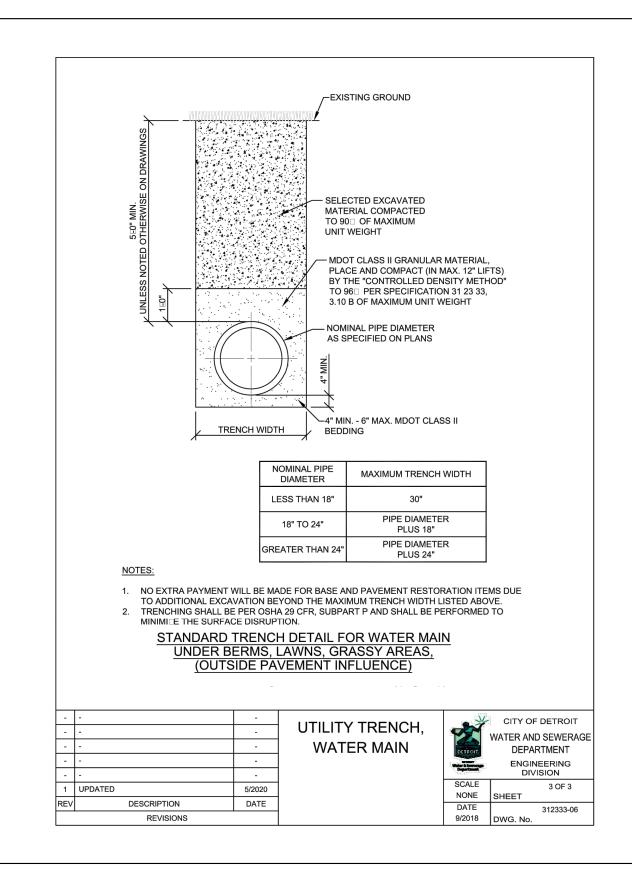


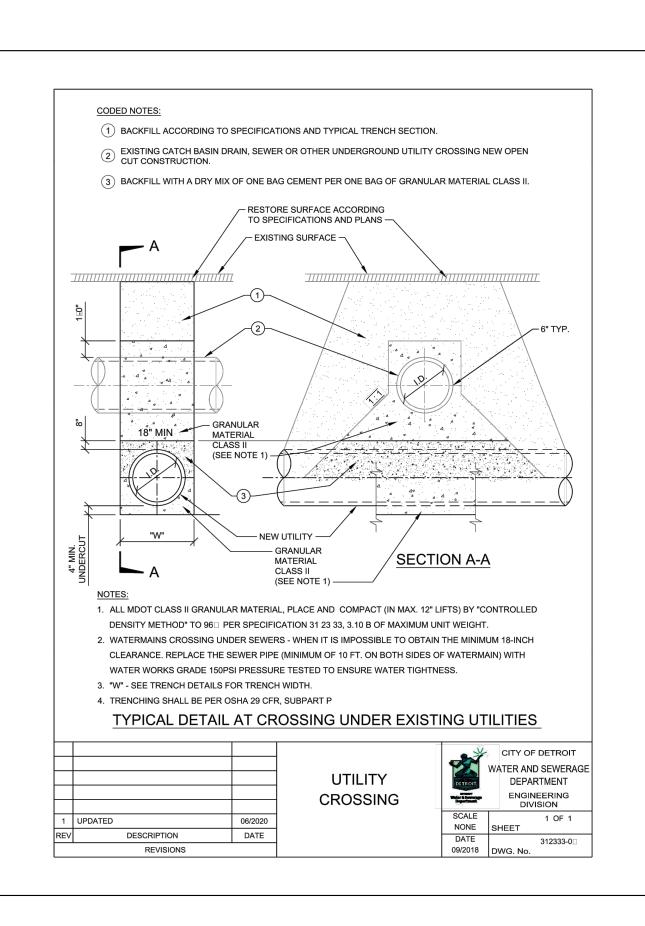


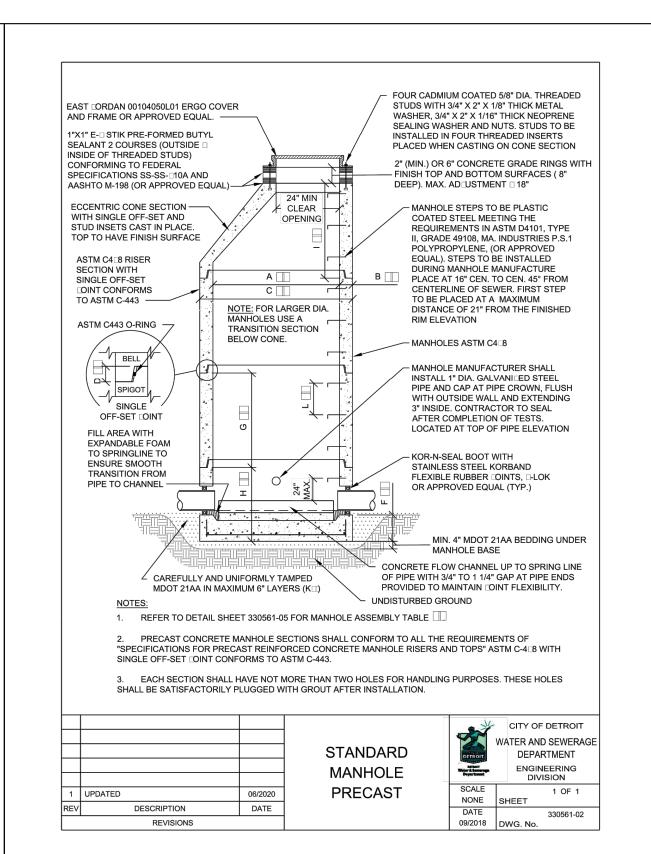




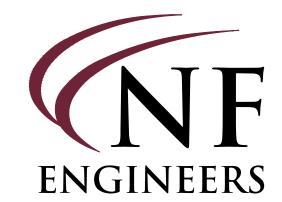






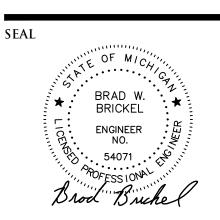


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PROJECT
Scripps District
3700 Trumbull

CLIENT
3701 Lincoln, LLC
6905 Telegraph Road,
Bloomfield Hills, MI 48301

Contact: Tim Loughrin

Phone: 248.282.1428
Contact: Jason Jones
Phone: 313.575.6835
Contact: George Roberts
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PROJECT LOCATION

Part of Hodges Bros.

Subdivision of Outlots

98, 99, 102 & 103

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SHEET
City of Detroit Standard
Details



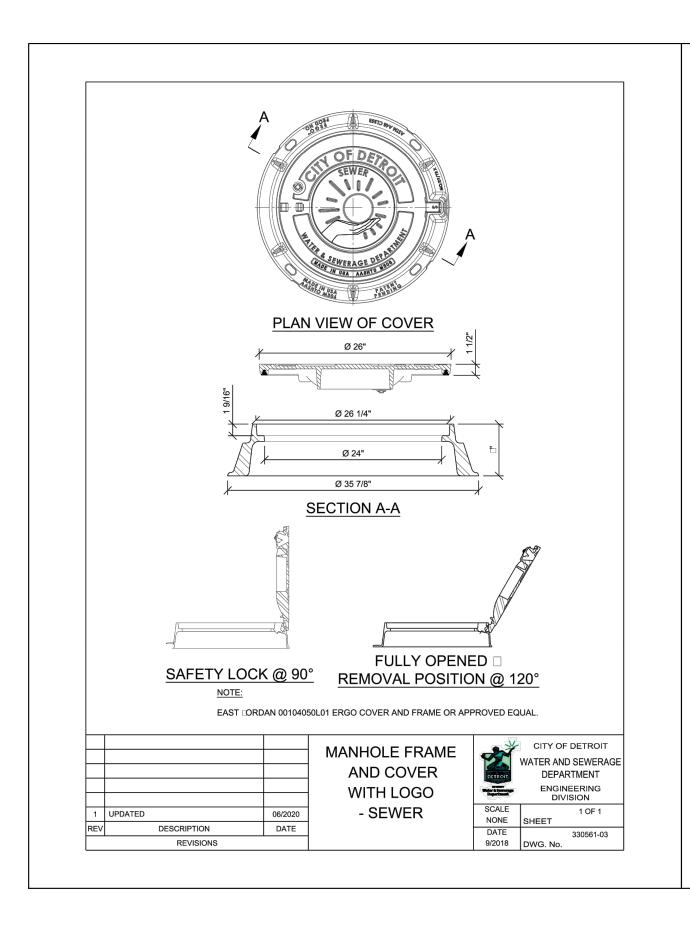
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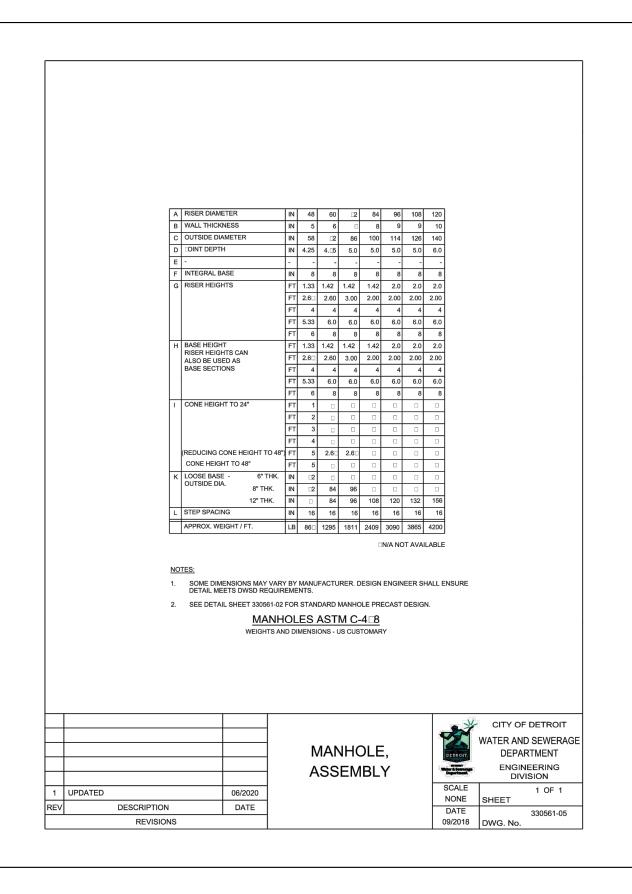
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:

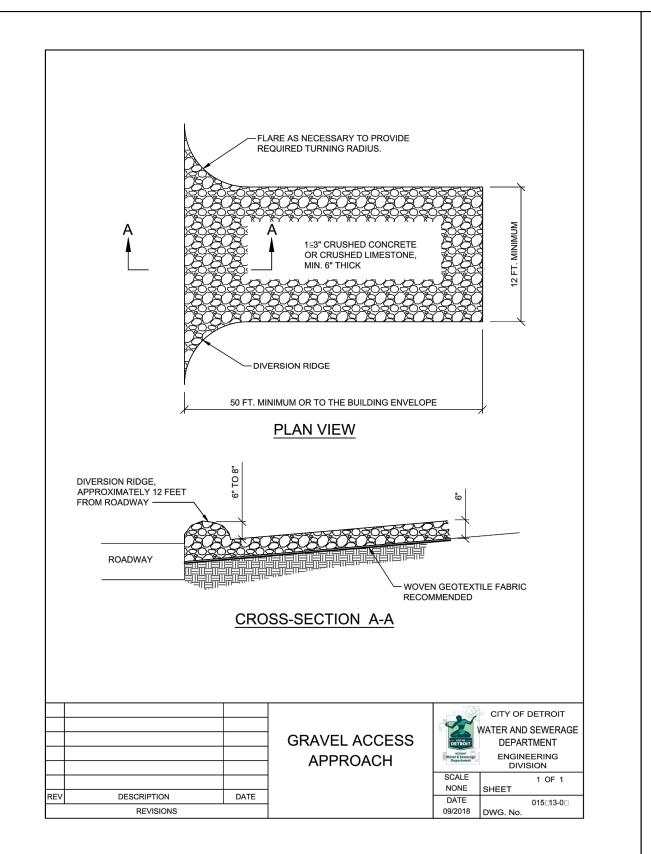
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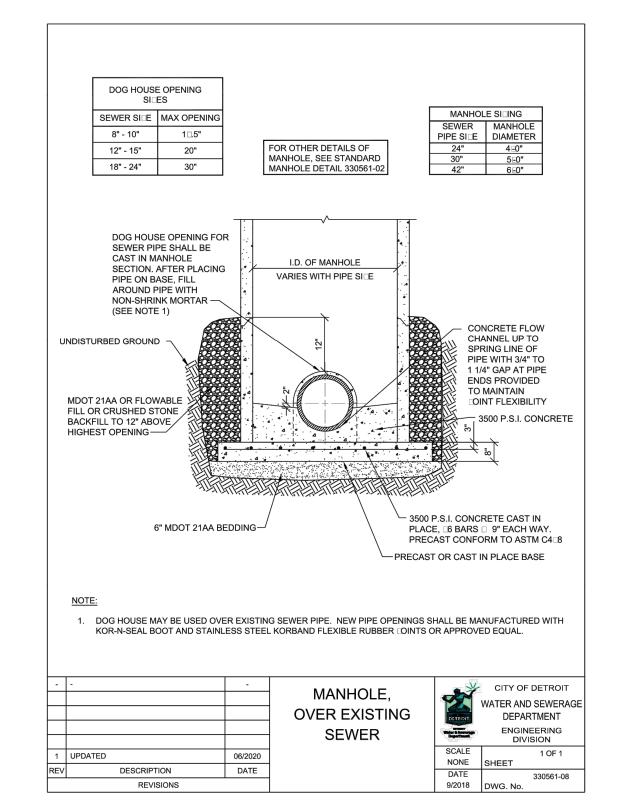
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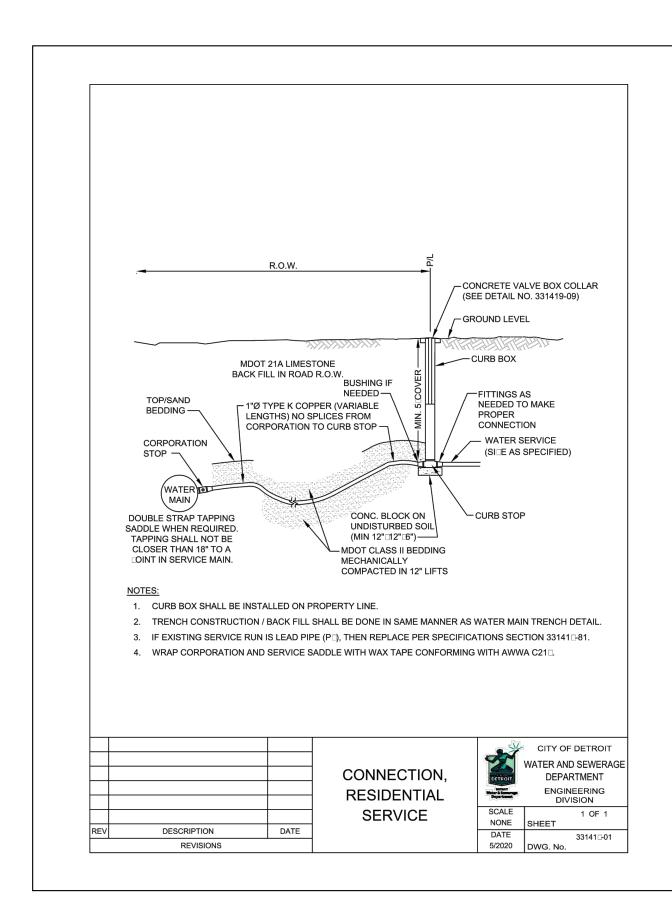
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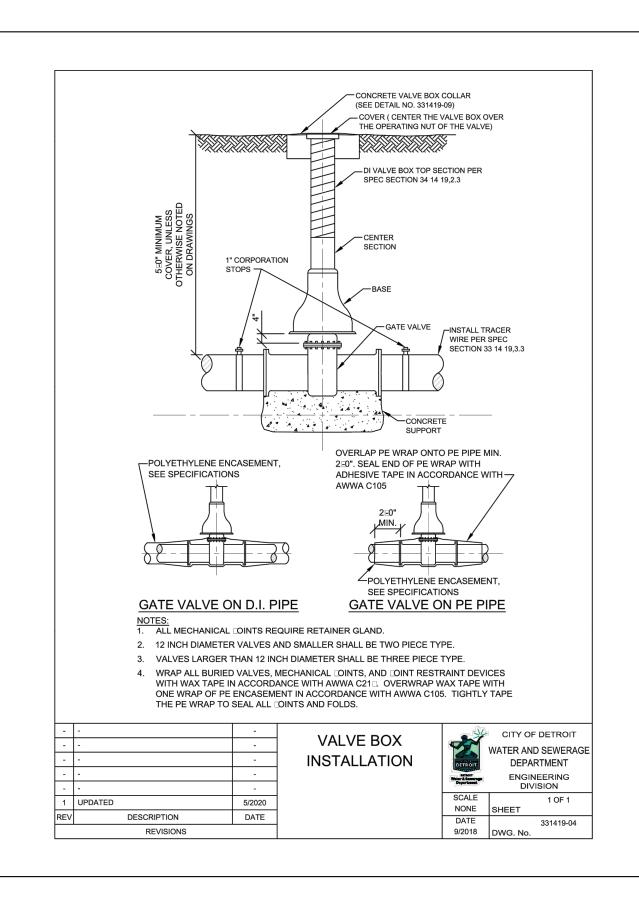


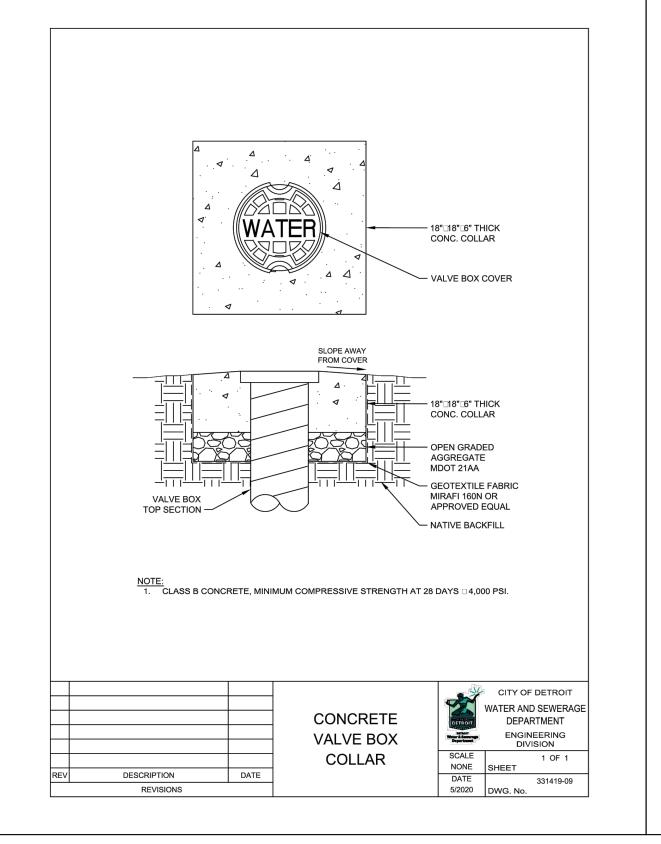


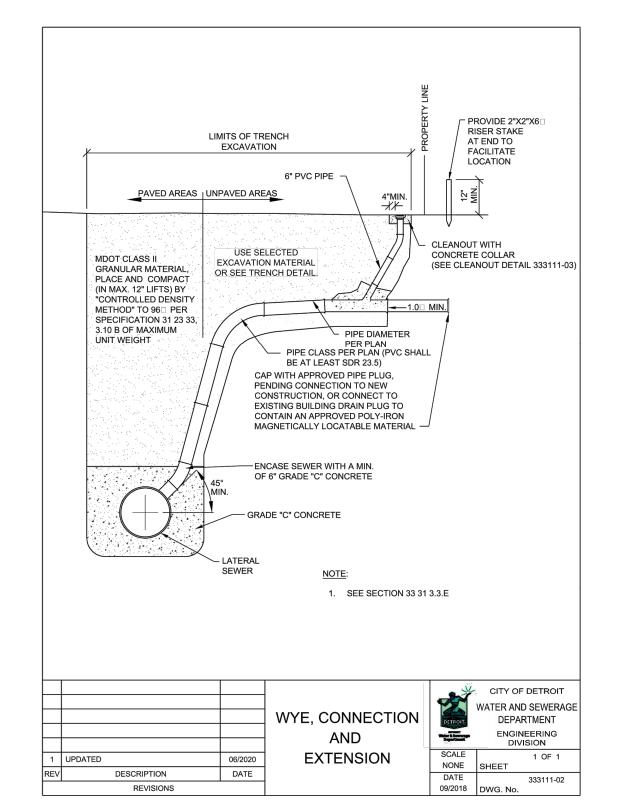










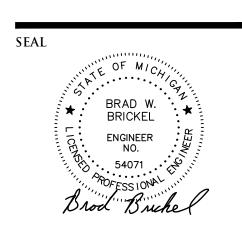


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B. Brio	ekel	

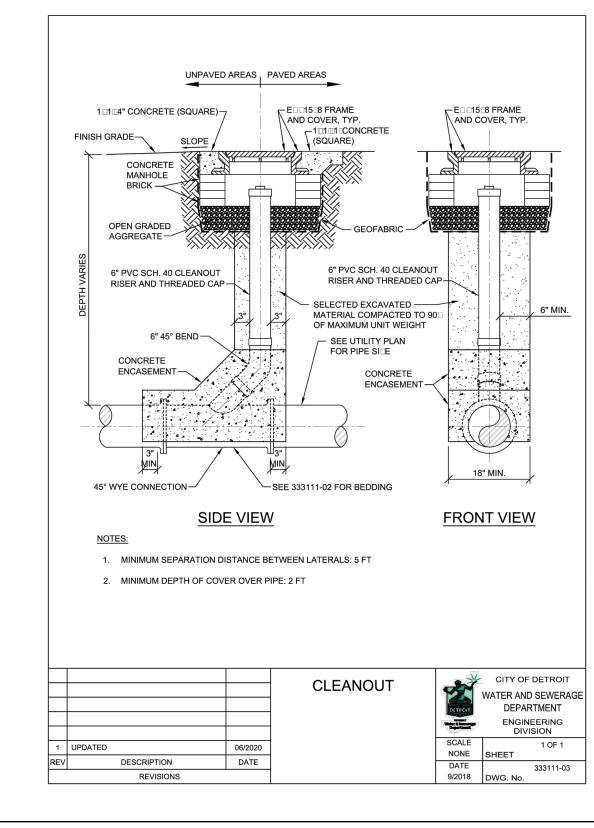
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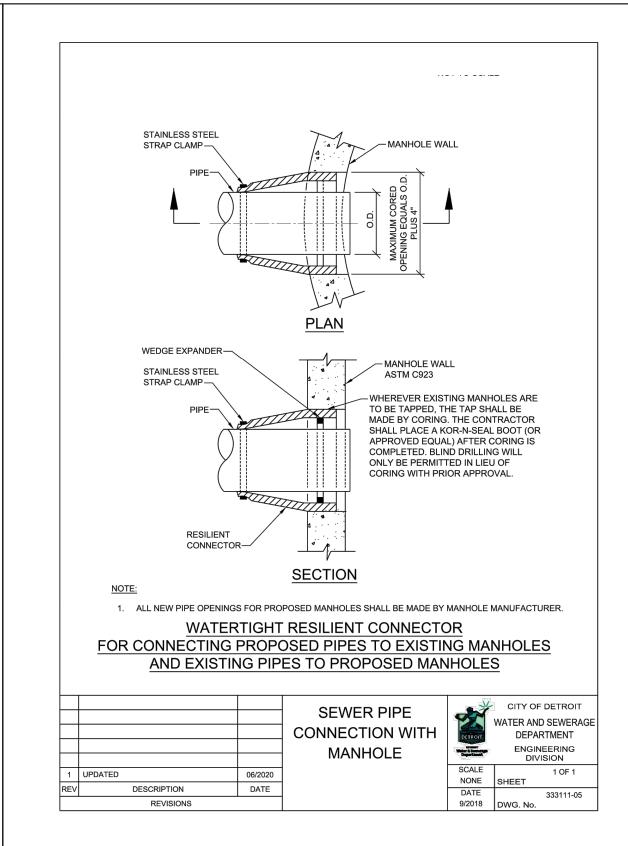
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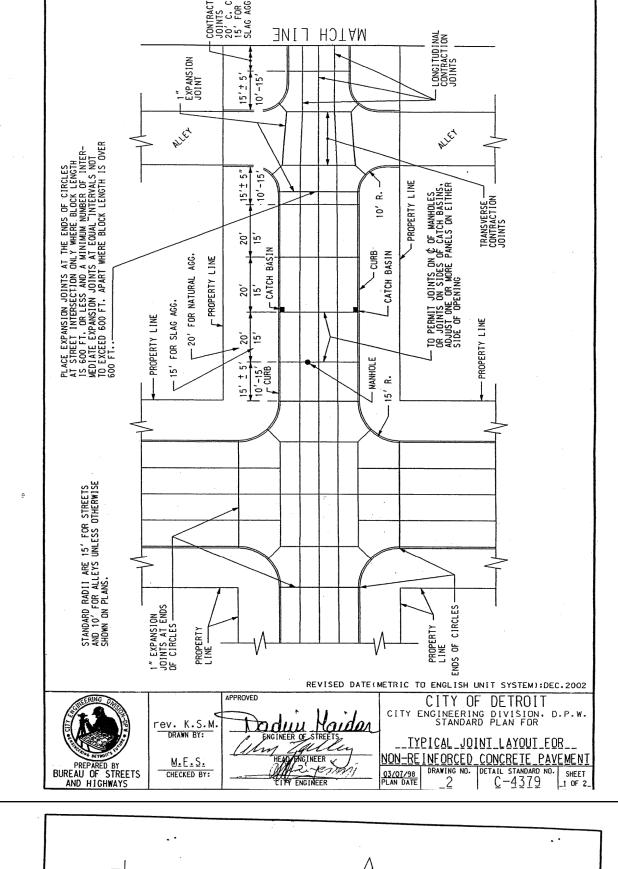
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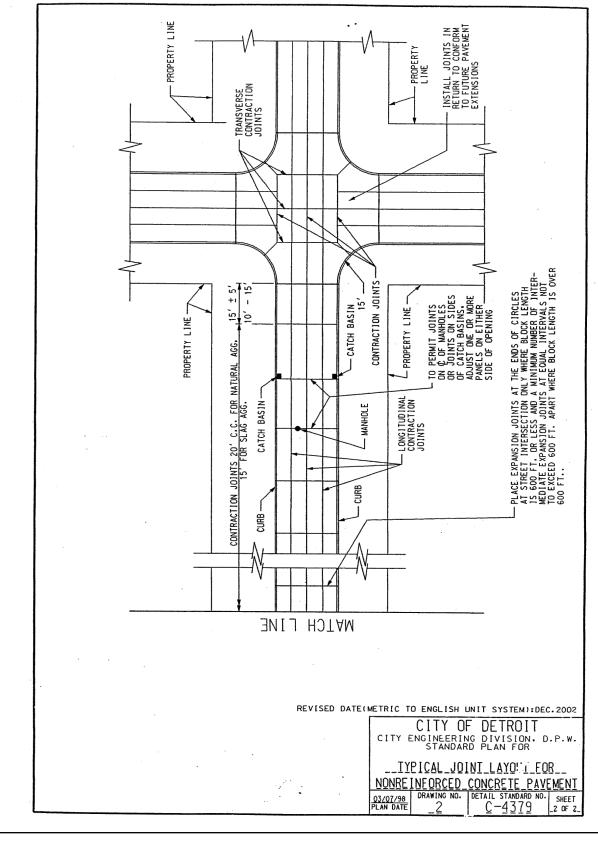
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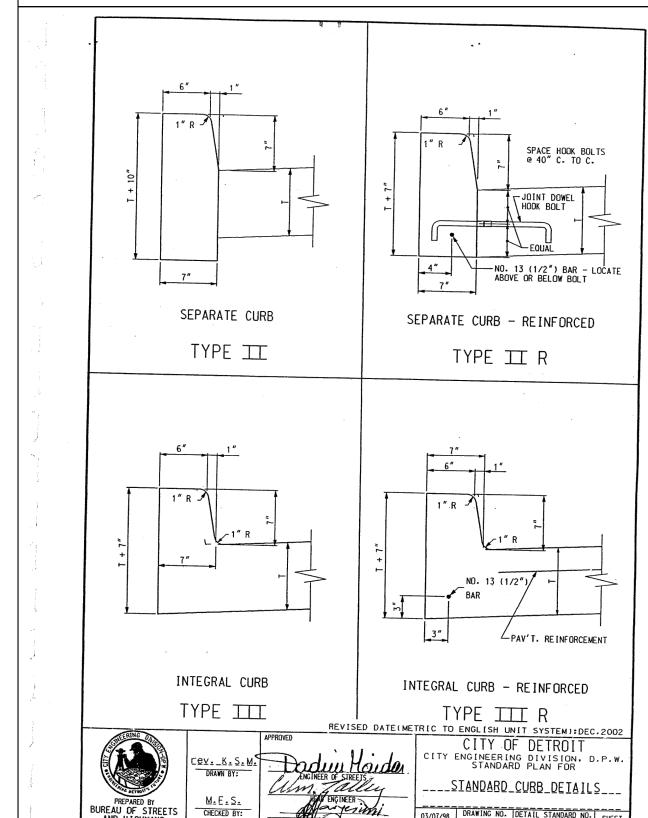
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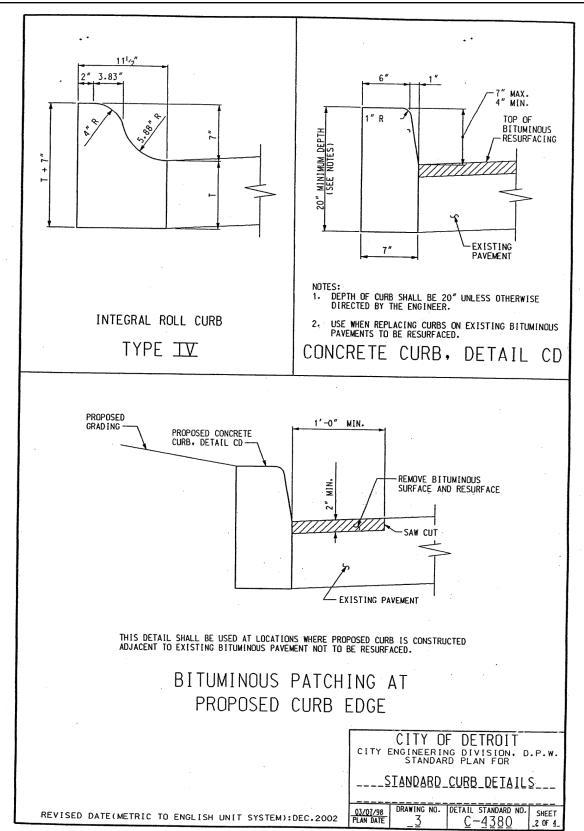


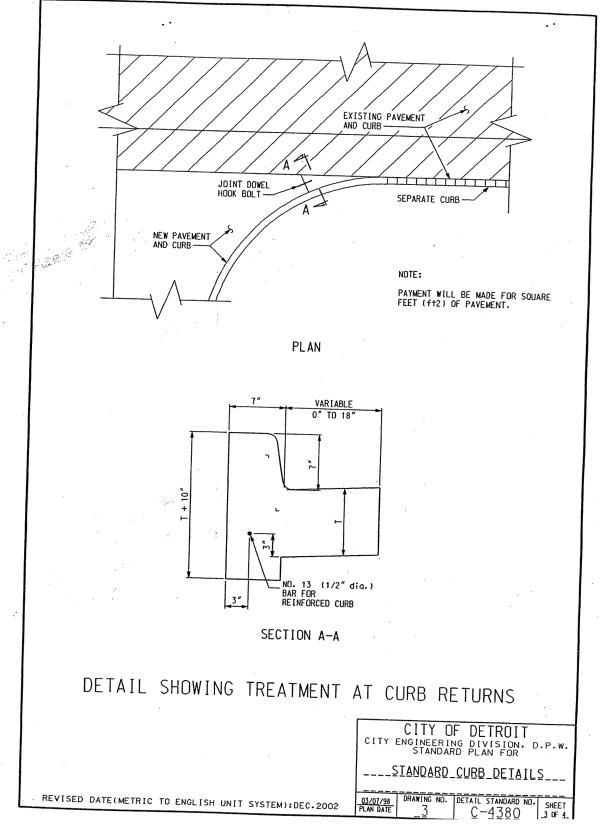


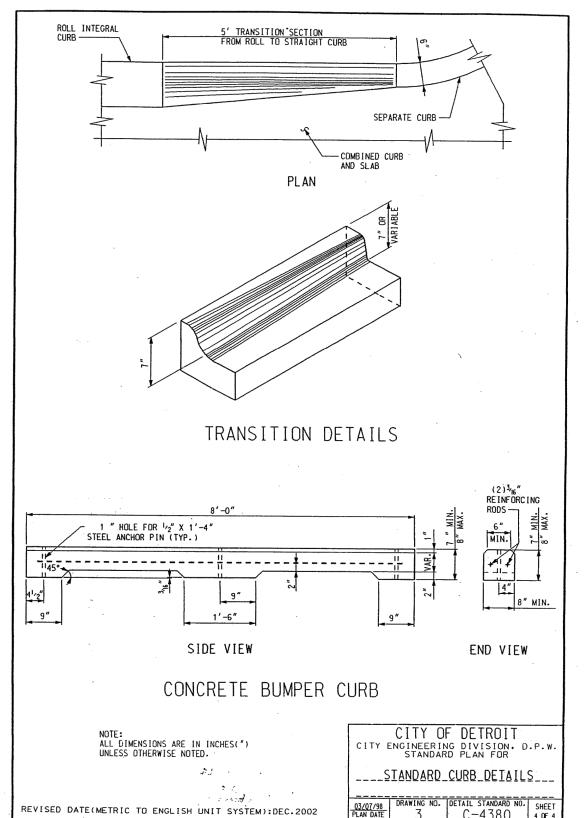




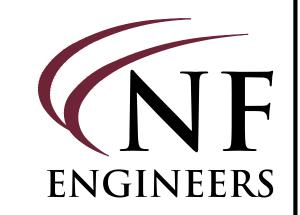






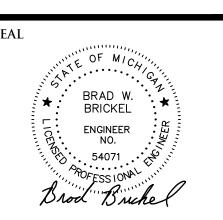


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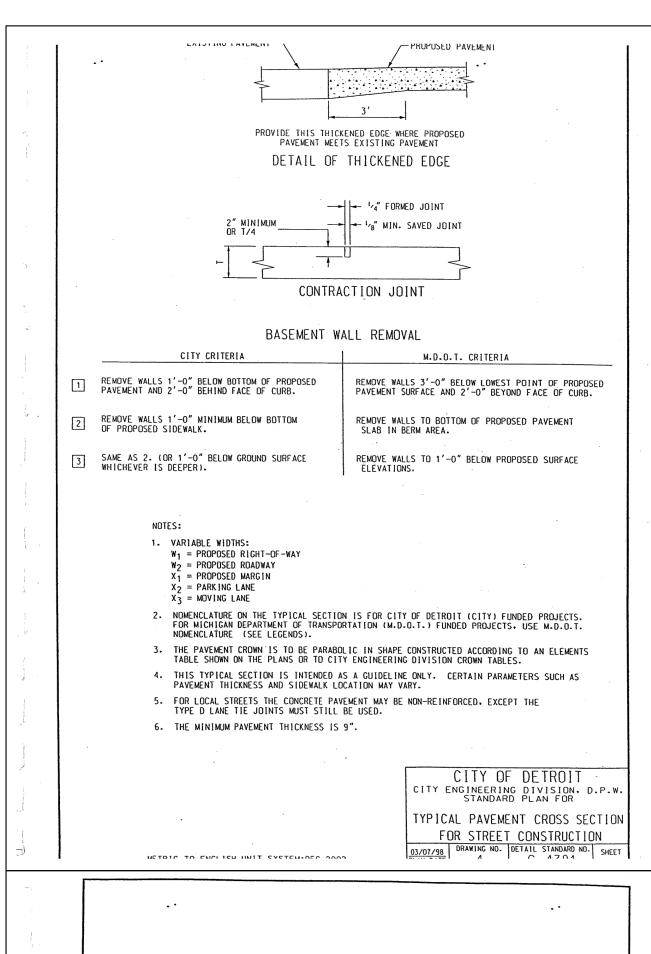
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09-20-21	REVISED GRADING
12-01-21	REVISED PER CITY
01-05-22	REVISED PER CITY

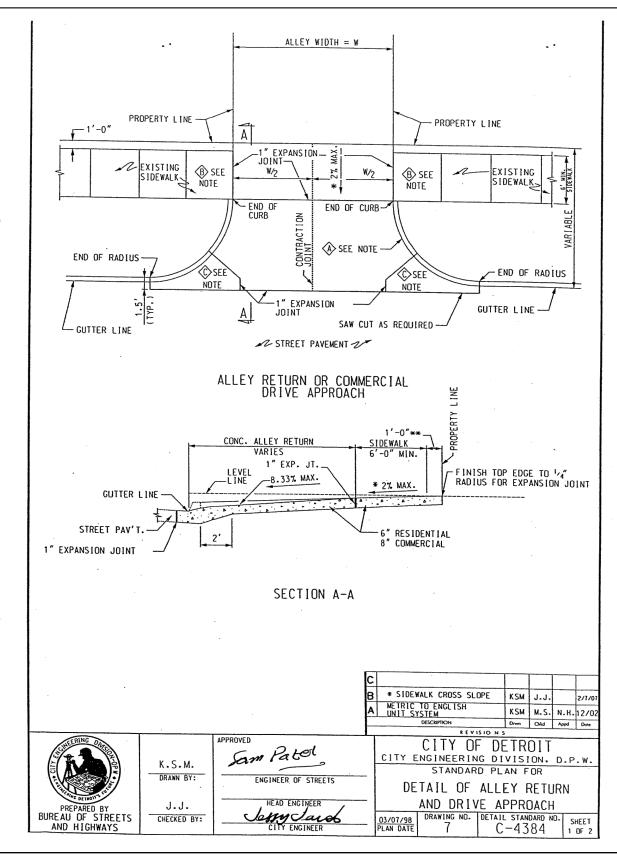
DRAWN BY:
J. Lawrey
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:

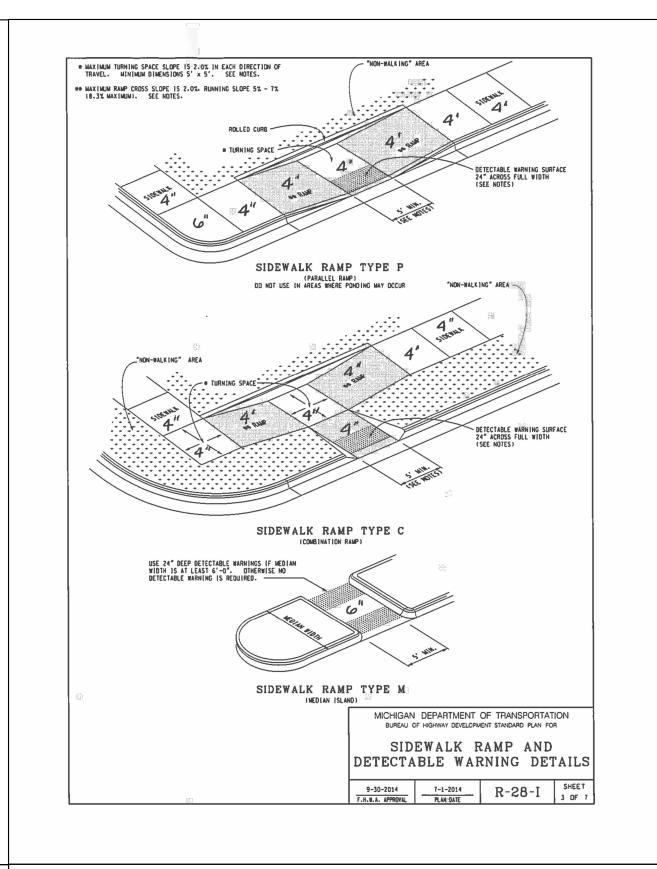
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September 10, 2020
SCALE: N.T.S.

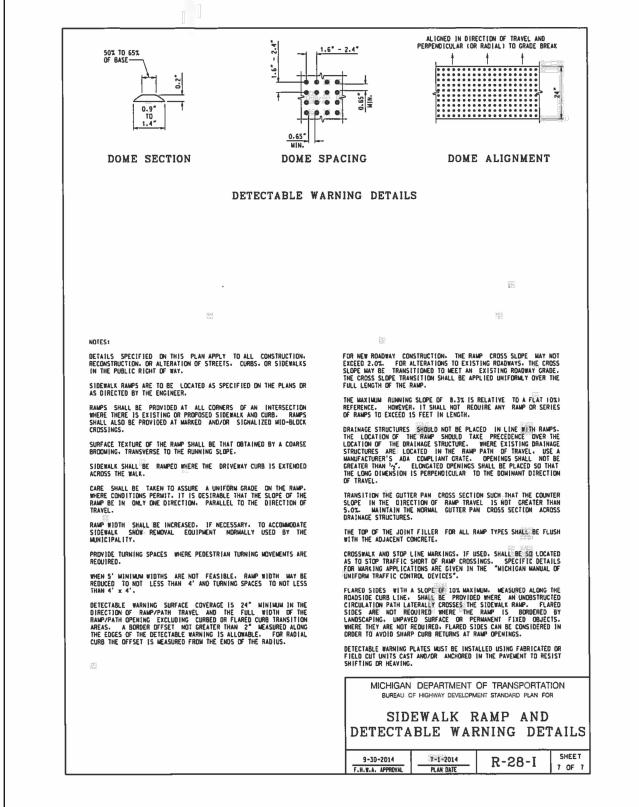
NFE JOB NO. SF L898

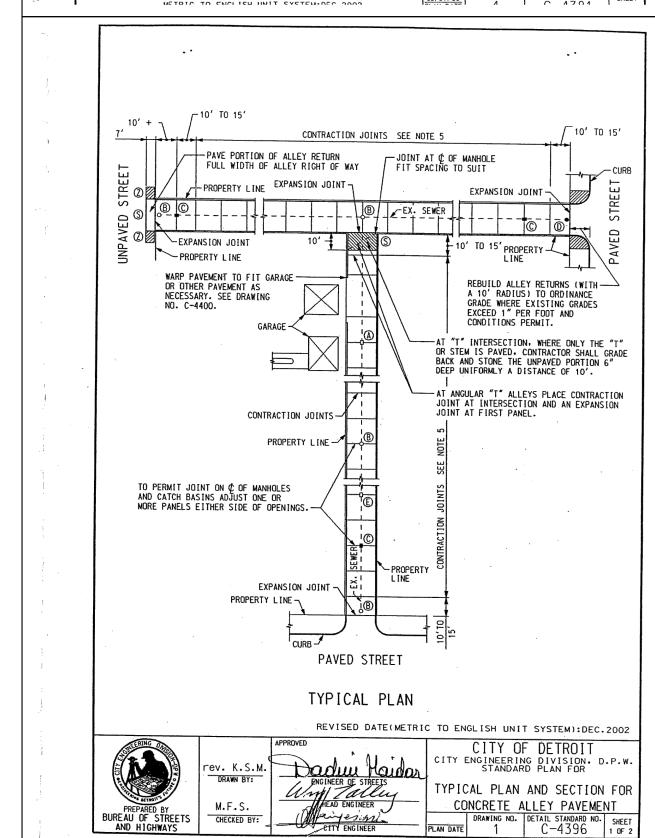
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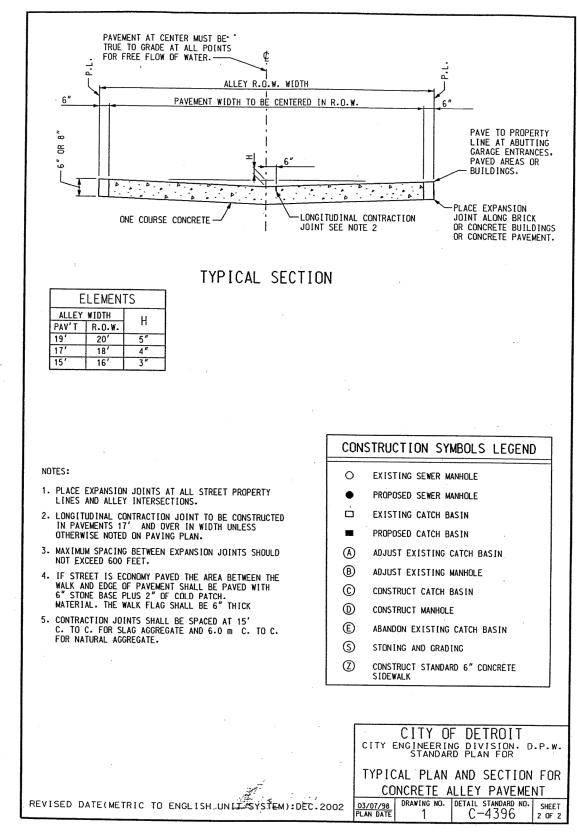


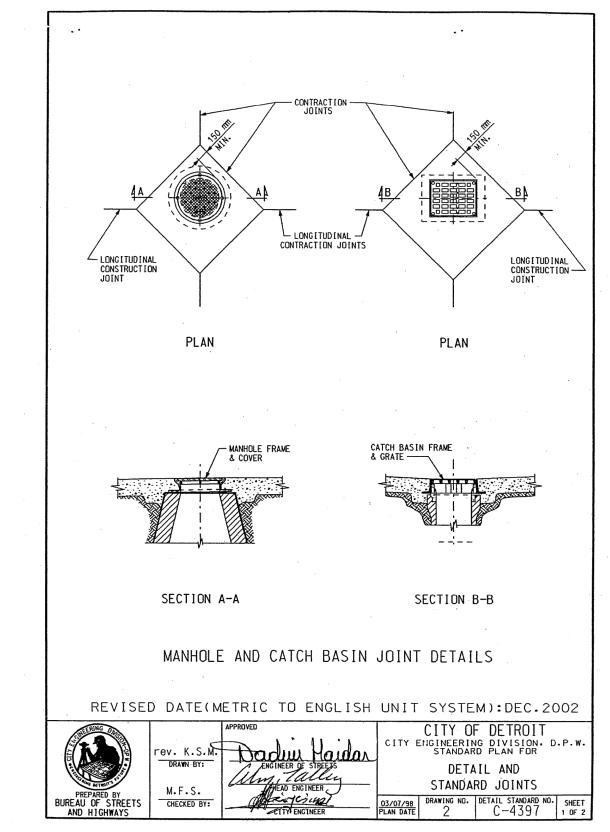


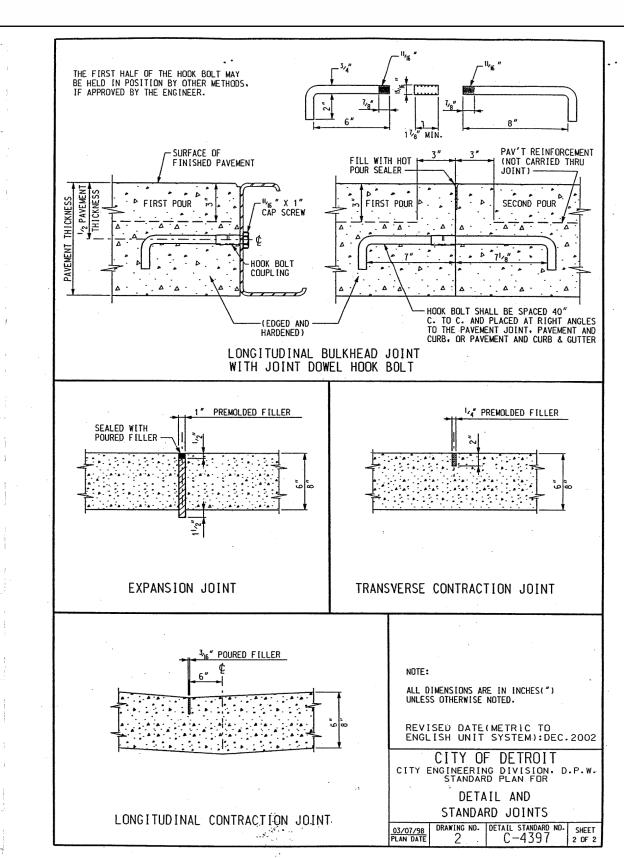




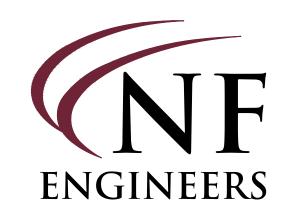








DETAIL NOTE THE OMMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT DWSD STANDARD SPECIFICATIONS AND DETAILS.



CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

BRAD W. BRICKEL **ENGINEER**

PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835 Contact: George Roberts Phone: 248.302.8662

PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit, Wayne County, Michigan

SHEET City of Detroit Standard Details



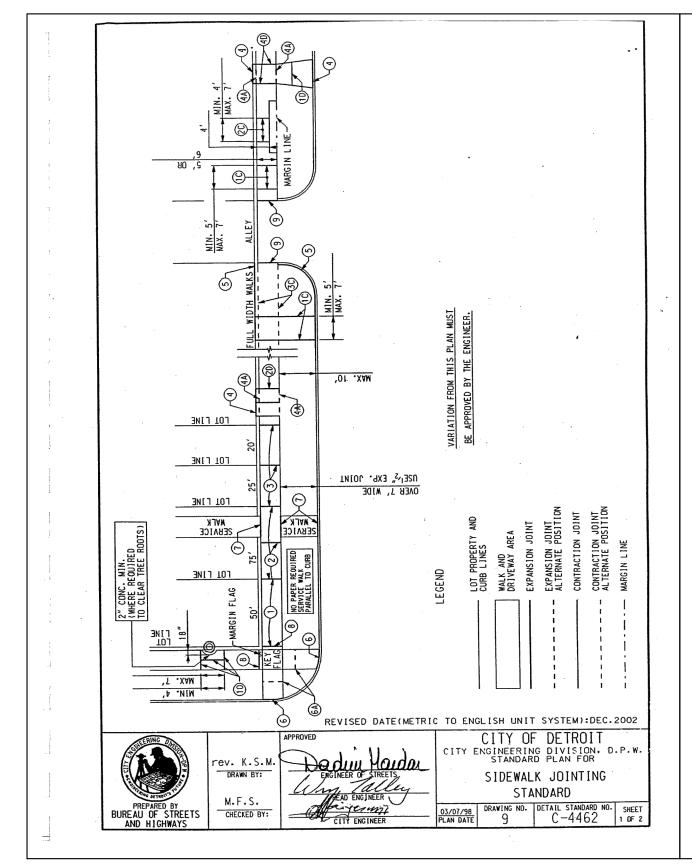
DATE	ISSUED/REVISED
08-27-21 ISSU	JED FOR ENGINEERING RE
09-20-21 REV	'ISED GRADING
12-01-21 REV	ISED PER CITY
01-05-22 REV	ISED PER CITY

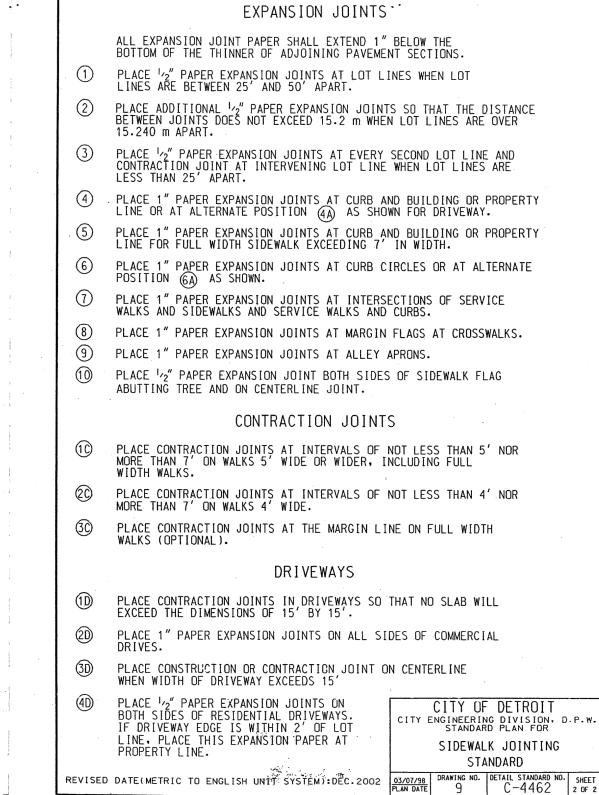
DRAWN BY: J. Lawrey **DESIGNED BY:** B. Brickel APPROVED BY: B. Brickel DATE: September 10, 2020

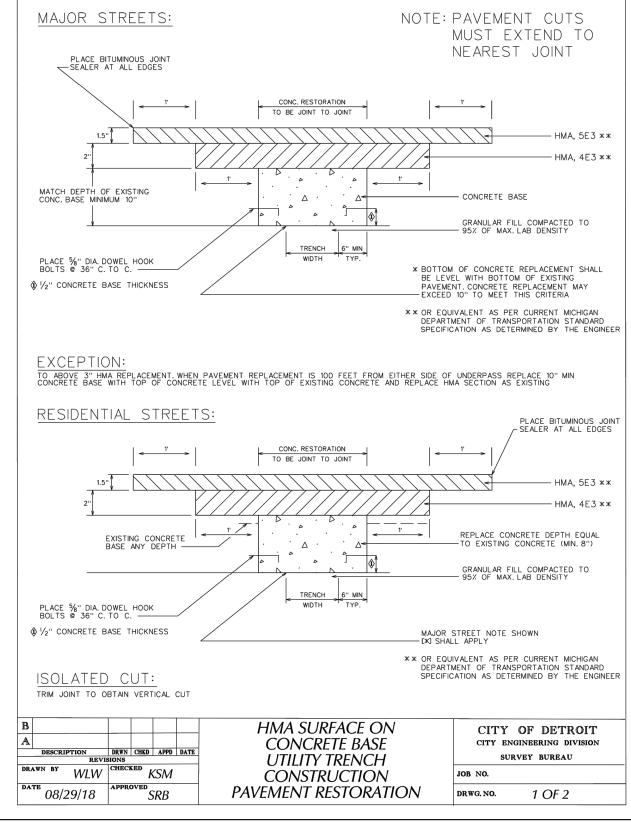
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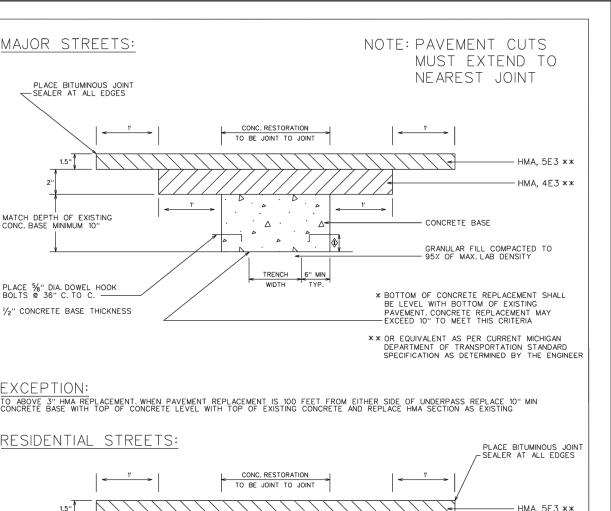
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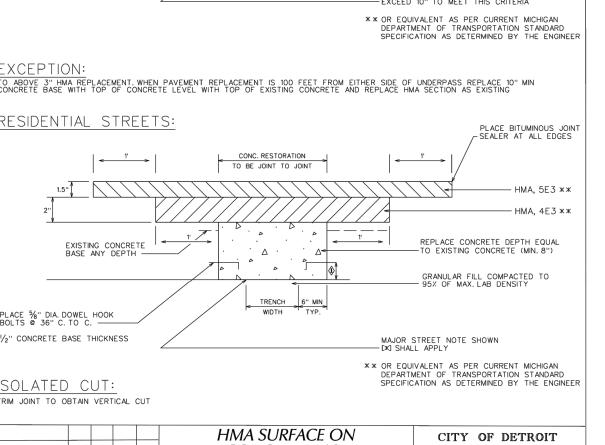
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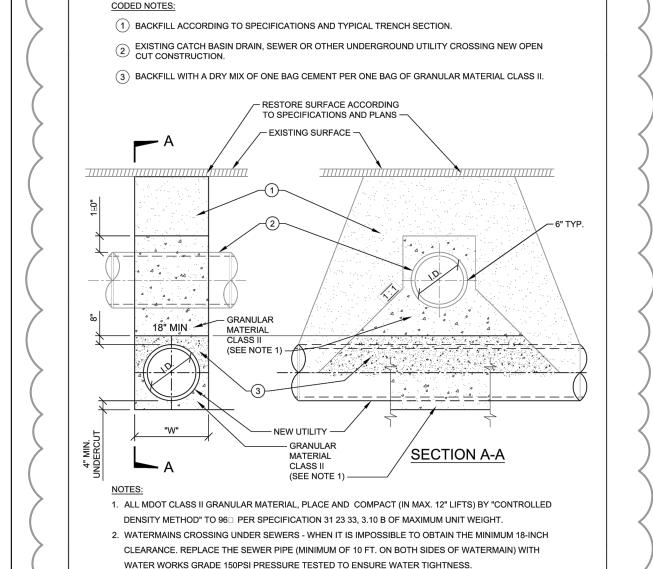


CITY OF DETROIT NOTES

- 1. MILL (REMOVE) HMA PAVEMENT WITHIN AND BEYOND THE AREA OF TRENCH PAVEMENT REMOVAL IN ORDER TO DETERMINE LOCATION OF UNDERLYING CONCRETE BANKER PAVEMENT JOINTS. MILL MINIMUM TO 1' BEYOND NEAREST
- 2. EXTEND UTILITY TRENCH CONCRETE PAVEMENT REMOVAL TO ALL CONCRETE PAVEMENT JOINTS AND / OR CURBS ADJACENT TO THE TRENCH AREA. REMOVAL SHALL BE "JOINT TO JOINT".
- 3. CONCRETE PAVEMENT CUTS SHALL BE MINIMUM 3' WIDE.
- 4. ALL PAVEMENT CUTS SHALL BE MINIMUM 1' WIDER THAN TRENCH WIDTH.
- 5. ALL REMOVALS SHALL BE SAWCUT STRAIGHT AND SQUARE (90 DEGREES).
- 6. CONCRETE RESTORATION PAVEMENT SHALL BE MDOT P1 MIX (3,500 PSI).
- 7. RESTORED CONCRETE PAVEMENT SHALL MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT IN CONFORMANCE WITH MDOT STANDARDS DETAIL R-44-F
- 8. RESTORED CONCRETE SHALL BE ANCHORED TO EXISTING CONCRETE PAVEMENT IN CONFORMANCE WITH MDOT STANDARD DETAIL R-44-F
- 9. APPLY HMA TACK COAT PER MDOT STANDARD SPECIFICATIONS SECTION 904.
- 10. RESTORE HMA PAVEMENT $3\frac{1}{2}$ " TO MATCH EXISTING, IN 2 LIFTS: 1ST LIFT - 2" MDOT HMA 4E3 (13A RESIDENTIAL), COMPACTED, EXTENDED 1' BEYOND BASE CONCRETE REPAIR.
 - 2ND LIFT $1/_2$ " MDOT HMA 5E3 (36A RESIDENTIAL), COMPACTED, EXTENDED 1 BEYOND 1ST LIFT..
- 11. BITUMINOUS JOINT SEALER SHALL BE PLACED AT ALL FINISHED HMA JOINTS.
- 12. ALL DISTRUBED PAVEMENT MARKINGS AND OTHER ASSETS, INCLUDING BIKE LANE DELINEATORS, WILL HAVE TO BE REPLACED AT THE COST OF THE PERMIT HOLDER, AND SHALL CONFORM TO THE LATEST CED / TED STANDARDS.
- 13. FOR OTHER RELATED SPECIFICATIONS (BACKFILL COMPACTION, MATERIALS, ETC...) REFER TO DIVISION 15 OF THE STANDARD SPECIFICATIONS FOR PAVING AND RELATED CONSTRUCTION.
- 14. NOTIFY THE CITY OF DETROIT ENGINEERING DEPARTMENT 24 HOURS PRIOR TO STARTING CONSTRUCTION.
- 15. ANY OPEN EXCAVATIONS ARE TO BE STEEL PLATED. IF EXCAVATIONS ARE IN THE PAVEMENT, THE PLATES ARE TO BE SPIKED AND RAMPED WITH COLD PATCH. CONTACT THE CITY WITH LOCATION OF THE STEEL PLATE.
- 16. THE CITY OF DETROIT REQUIRES ALL CONCRETE WORK TO BE STAMPED WITH A CONTRACTORS IDENTIFICATION STAMP.

		HMA SURFACE ON	CITY OF DETROIT
	DDENY CHAN APPROVE	CONCRETE BASE	CITY ENGINEERING DIVISION
REVIS		UTILITY TRENCH	SURVEY BUREAU
WLW	CHECKED KSM	CONSTRUCTION	JOB NO.
08/29/18	SRB	PAVEMENT RESTORATION	DRWG. NO. 2 OF 2

DRAWN

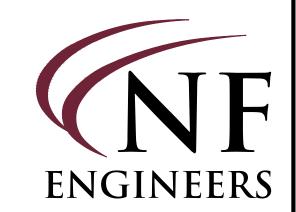


3. "W" - SEE TRENCH DETAILS FOR TRENCH WIDTH. 4. TRENCHING SHALL BE PER OSHA 29 CFR, SUBPART P TYPICAL DETAIL AT CROSSING UNDER EXISTING UTILITIES

UTILITY CROSSING WATER AND SEWERAGE DEPARTMENT 1 OF 1 312333-07

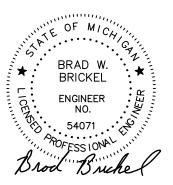
09/2018 DWG. No.

DETAIL NOTE THE OMMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT DWSD STANDARD SPECIFICATIONS AND DETAILS.



CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



PROJECT Scripps District 3700 Trumbull

CLIENT 3701 Lincoln, LLC 6905 Telegraph Road, Bloomfield Hills, MI 48301

Contact: Tim Loughrin Phone: 248.282.1428 Contact: Jason Jones Phone: 313.575.6835

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PROJECT LOCATION Part of Hodges Bros. Subdivision of Outlots 98, 99, 102 & 103 Woodbridge Farm City of Detroit, Wayne County, Michigan

SHEET City of Detroit Standard Details



DATE ISSUED/REVISED 08-27-21 ISSUED FOR ENGINEERING REVIEW 09-20-21 REVISED GRADING 12-01-21 REVISED PER CITY 01-05-22 REVISED PER CITY

DRAWN BY: J. Lawrey **DESIGNED BY:** B. Brickel APPROVED BY:

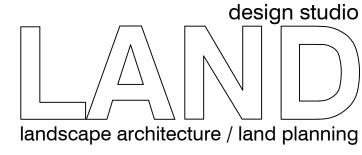
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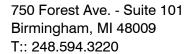
B. Brickel

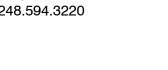
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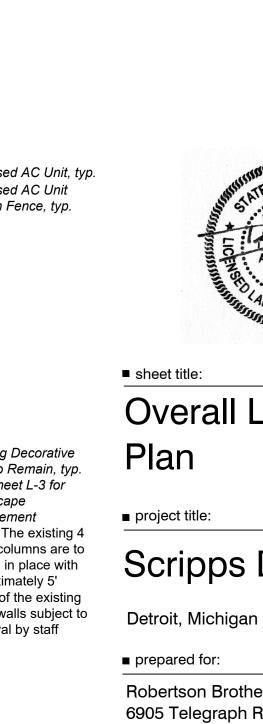
NFE JOB NO. L898

SHEET NO. **C23**











Overall Landscape

Scripps District

prepared for:

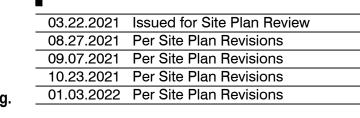
EMJ

Robertson Brothers Homes 6905 Telegraph Rd. - Suite 200 Bloomfield Hills, MI 48301

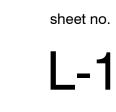
Phone: 248.282.1428

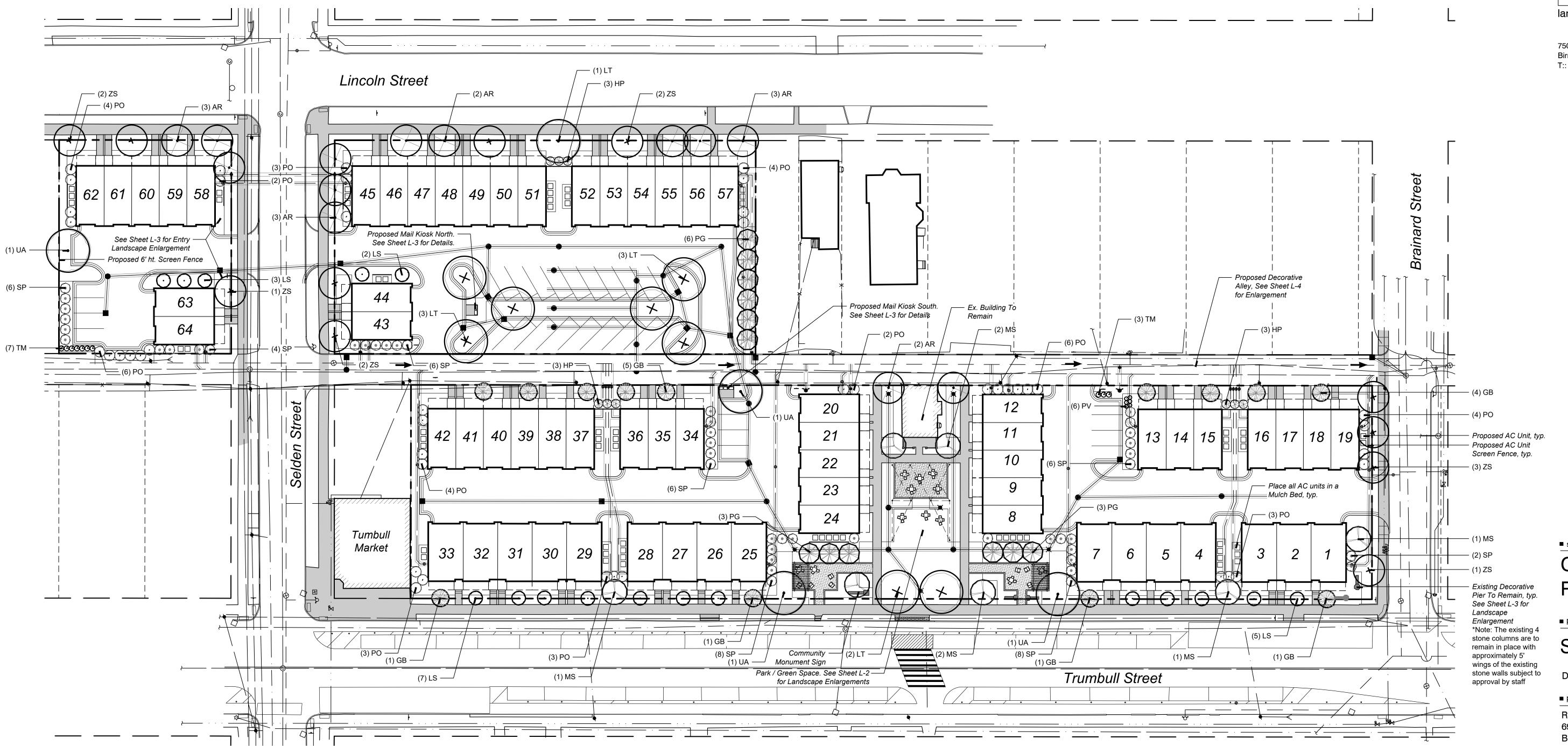
Job number:	■ date:
20002	03.09.2021
■ drawn by:	■ checked by:











Plant Schedule This Sheet

Trees						
sym.	qty.	botanical name	common name	size	spacing	root
AR	13	Acer rubrum 'Armstrong'	Armstrong Red Maple	2.5" cal.	per plans	B&B
GB	13	Ginkgo biloba 'Goldspire'	Goldspire Ginkgo	2.5" cal.	per plans	B&B
LS	17	Liquidambar styraciflua 'Slender Silhouette'	Slender Silhouette Sweetgum	2.5" cal.	per plans	B&B
LT	9	Liriodendron tulipifera	Tuliptree	2.5" cal.	per plans	B&B
MS	6	Malus 'Sutyzam'	Sugar Tyme Flowering Crabapple	2" cal.	per plans	B&B
PG	12	Picea glauca	White Spruce	8' ht.	per plans	B&B
UA	4	Ulmus americana 'Princeton'	Princeton American Elm	2.5" cal.	per plans	B&B
ZS	11	Zelkova serrata 'Musashino'	Musashino Columnar Zelkova	2.5" cal.	per plans	B&B
Shrubs						
sym.	qty.	botanical name	common name	size	spacing	root
HP	9	Hydrangea paniculata 'Little Quick Fire'	Little Quick Fire Panicle Hydrangea	No. 3	5' o.c.	cont.
РО	45	Physocarpus opulifolius 'Monlo'	Diabolo Ninebark	No. 5	6' o.c.	cont.
SP	46	Syringa pubescens subsp. patula 'Miss Kim'	Miss Kim Korean Lilac	No. 5	6' o.c.	cont.
TM	10	Taxus x media 'Densiformis'	Dense Yew	24"-30" ht.	36" o.c.	B&B
Ornamen	ital Gras	ses, Perennials & Bulbs				
sym.	qty.	botanical name	common name	size	spacing	root
PV	6	Panicum virgatum 'Shenandoah'	Shenandoah Switchgrass	No. 2	30" o.c.	cont.

Landscape Summary

5 Trees

5 Trees

5 Trees 5 Trees

1 Tree / 30 LF frontage

<u>Trumbull Street</u> - Required: - Length of Frontage: - Required: - Provided:	1 Tree / 30 LF frontage 558 LF 19 Trees 20 Trees
Brainard Street - Required: - Length of Frontage: - Required: - Provided:	1 Tree / 30 LF frontage 124 LF 5 Trees 5 Trees
Lincoln Street South - Required: - Length of Frontage: - Required: - Provided:	1 Tree / 30 LF frontage 224.40 LF 8 Trees 8 Trees
<u>Lincoln Street North</u> - Required: - Length of Frontage: - Required: - Provided:	1 Tree / 30 LF frontage 100 LF 4 Trees 4 Trees
<u>Selden Street South</u> - Required: - Length of Frontage:	1 Tree / 30 LF frontage 124 LF

- Required: - Provided:

- Required:

- Required:

- Provided:

Selden Street North

- Length of Frontage: 124 LF

% of Total qty. common name 13 Armstrong Red Maple 13 Goldspire Ginkgo Musashino Columnar Zelkova Princeton American Elm 17 Slender Silhouette Sweetgum Sugar Tyme Flowering Crabapple Tuliptree White Spruce Shrubs common name % of Total qty. 41 Arctic Fire Red Twig Dogwood 225 Dense Yew Diabolo Ninebark 60 Little Quick Fire Panicle Hydrangea 46 Miss Kim Korean Lilac

- Provided: 1,946 Total Plant Proposed

Trees

Plant Diversity
- Required: No one species of tree or shrub may make up

more than 50% of the total plantings.

PowWow White Coneflower 2.1% 126 Purple Palace Coralbell 11.6% Shenandoah Switchgrass 2.3% 108 Sun King Japanese Spikenard 3.1% 2.4%

0.7%

0.7%

0.6%

0.2%

0.9%

0.5%

0.6%

Ornamental Grasses, Perennials & Bulbs

Blue Heaven Little Bluestem

28 Always Afternoon Daylily

Blue Wonder Catmint

Green Spice Coralbell

Little Business Daylily

Little Grapetter Daylily

PowWow Berry Coneflower

Dark Towers Penstemon

Japanese Pachysandra

Karl Foerster Feather Reed Grass

Big Blue Liriope

common name

% of Total

1.4%

3.2%

1.2%

4.0%

5.8%

6.5%

21.0%

1.3%

3.9%

2.9%

3.2%

3.2%

6.5%

4.6%

5.6%

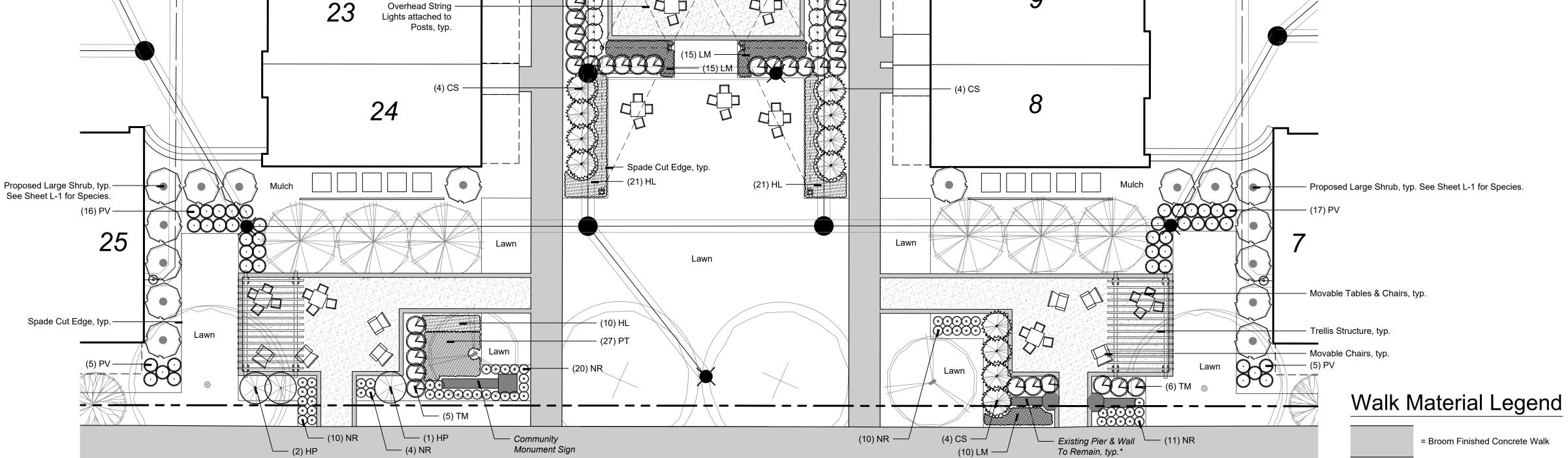


750 Forest Ave. - Suite 101

Birmingham, MI 48009 T:: 248.594.3220

Plant Schedule This Sheet

Shrubs						
sym.	qty.	botanical name	common name	size	spacing	root
CS	12	Cornus stolonifera 'Farrow'	Arctic Fire Red Twig Dogwood	No. 3	5' o.c.	cont
HP	13	Hydrangea paniculata 'Little Quick Fire'	Little Quick Fire Panicle Hydrangea	No. 3	5' o.c.	cont
TM	39	Taxus x media 'Densiformis'	Dense Yew	24"-30" ht.	36" o.c.	B&B
Ornamen	tal Gras	ses, Perennials & Bulbs				
sym.	qty.	botanical name	common name	size	spacing	root
CA	20	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	No. 2	36" o.c.	cont
HL	52	Hemerocallis 'Little Business'	Little Business Daylily	No. 1	18" o.c.	cont
LM	40	Liriope muscari 'Big Blue'	Big Blue Liriope	No. 1	18" o.c.	cont
NR	55	Nepeta racemosa 'Blue Wonder'	Blue Wonder Catmint	No. 1	18" o.c.	cont
PV	51	Panicum virgatum 'Shenandoah'	Shenandoah Switchgrass	No. 2	30" o.c.	cont
PT	137	Pachysandra terminalis	Japanese Pachysandra	No. 1	18" o.c.	cont



Proposed Tree, typ. See
 Sheet L-1 for Species

10

Alleyway

Ex. Building

To Remain

Park / Green Space Landscape Enlargement Plan

20

(14) TM -





Trumbull Avenue





displayed here are to be considered precedent images and are subject to change as final details are developed.

= Compacted Gravel / Fines Walk

Scale: 1" = 10'

Note: The hardscape elements

with 6"x6" Concrete Edging



Central Amenity Plan & Precedents

■ project title:

Scripps District

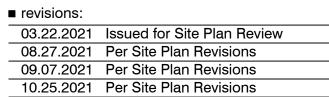
Detroit, Michigan

prepared for:

Robertson Brothers Homes 6905 Telegraph Rd. - Suite 200 Bloomfield Hills, MI 48301

Phone: 248.282.1428

■ job number:	■ date:
20002	03.09.2021
drawn by:	■ checked by:
EMJ	WTK



01.03.2022 Per Site Plan Revisions







Overhead String Lights on Posts



Movable Chairs (Adirondack or Similar)

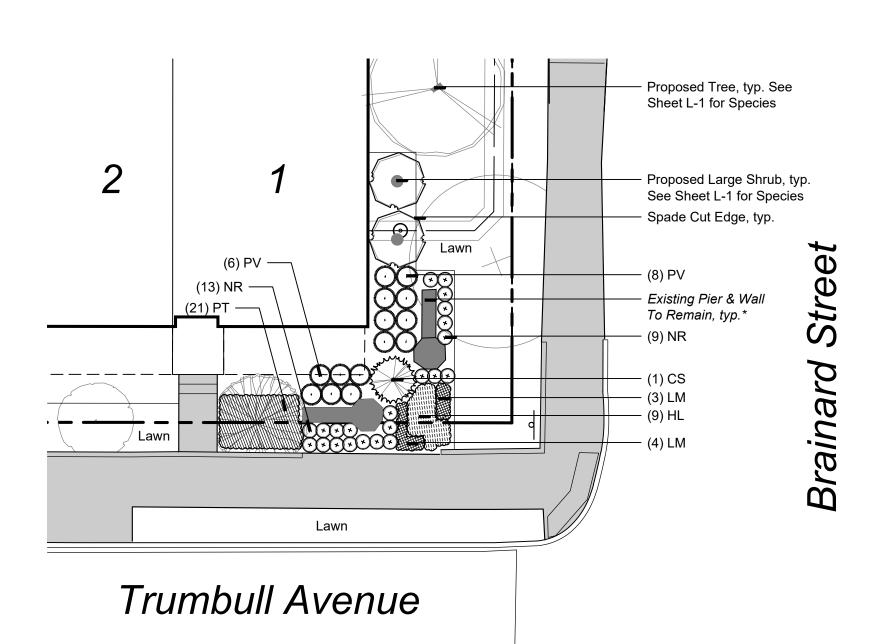


*Note: The existing 4 stone columns are to remain in place with approximately 5' wings of the existing stone walls subject to approval by staff

Proposed Large Shrub, typ.
 See Sheet L-1 for Species

(Potentially matching Scripps Park, or similar)

Seldon Entry Landscape Enlargement Plan

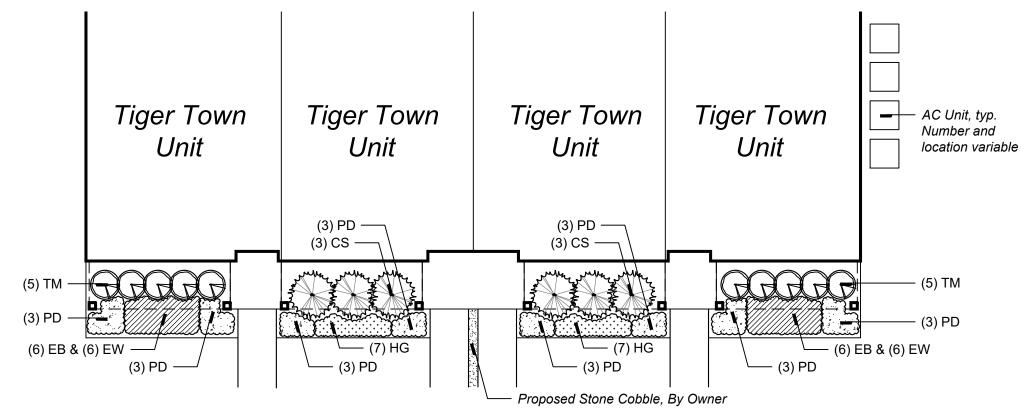


Corner Piers Landscape Enlargement Plan

Scale: 1" = 10' *Note: The existing 4 stone columns are to remain in place with approximately 5' wings of the existing stone walls subject to approval by staff

Plant Schedule: Landscape Enlargements

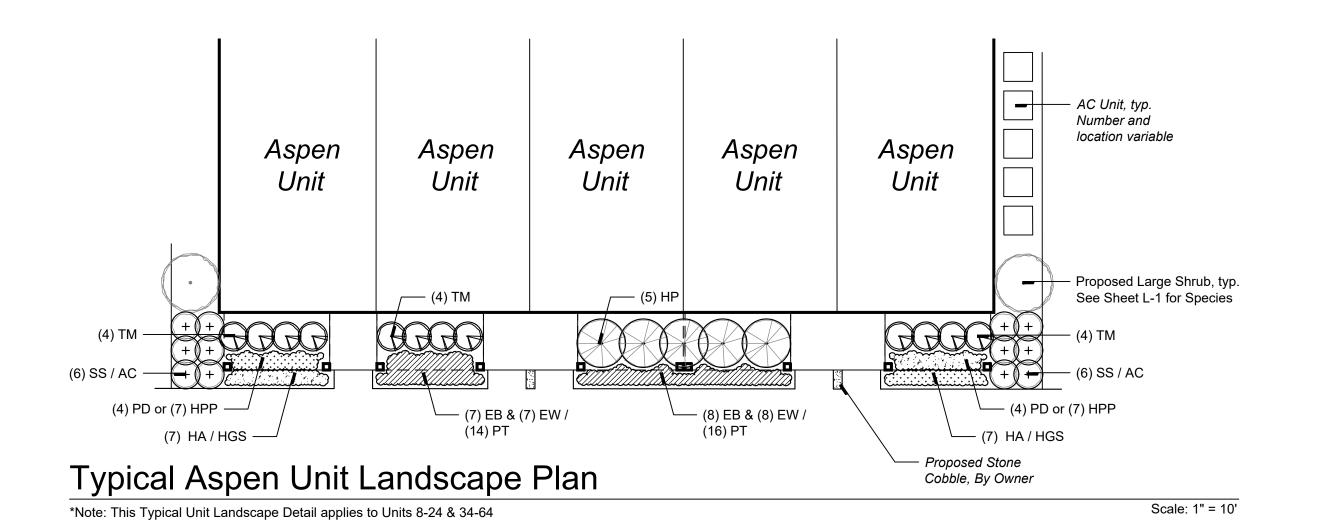
Shrubs						
sym.	qty.	botanical name	common name	size	spacing	root
CS	5	Cornus stolonifera 'Farrow'	Arctic Fire Red Twig Dogwood	No. 3	5' o.c.	cont.
HP	3	Hydrangea paniculata 'Little Quick Fire'	Little Quick Fire Panicle Hydrangea	No. 3	5' o.c.	cont.
Ornamen	tal Gras	sses, Perennials & Bulbs				
sym.	qty.	botanical name	common name	size	spacing	root
CA	6	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	No. 2	36" o.c.	cont.
HL	23	Hemerocallis 'Little Business'	Little Business Daylily	No. 1	18" o.c.	cont.
LM	22	Liriope muscari 'Big Blue'	Big Blue Liriope	No. 1	18" o.c.	cont.
NR	22	Nepeta racemosa 'Blue Wonder'	Blue Wonder Catmint	No. 1	18" o.c.	cont.
PV	33	Panicum virgatum 'Shenandoah'	Shenandoah Switchgrass	No. 2	30" o.c.	cont.
PT	21	Pachysandra terminalis	Japanese Pachysandra	No. 1	18" o.c.	cont.



Typical Tiger Town Unit Landscape Plan

*Note: This Typical Unit Landscape Detail applies to Units 1-7 & 25-33

Scale: 1" = 10'



All Aluminum Construction

Decorative Mailbox - 16 Gang CBU

Manufacturer: Salsbury Industries 1010 E. 62nd St. Los Angeles, CA 90001 www.mailboxes.com Regency Decorative CBU #3316R Black Quantity:



Decorative Mailbox - 12 Gang CBU

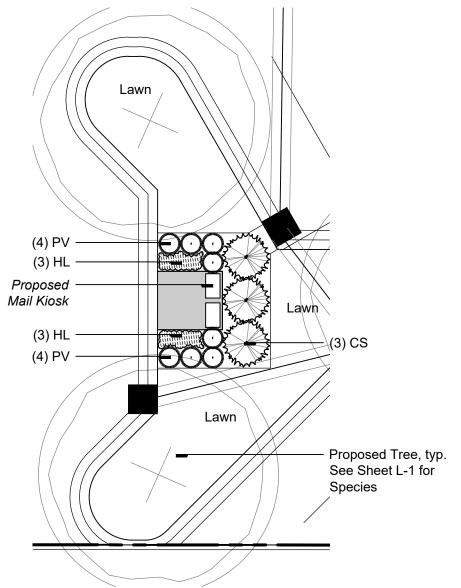
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Quantity:

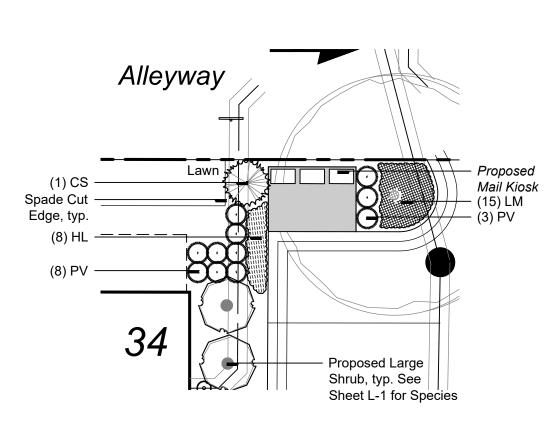
Plant Schedule: Typical Unit Landscapes

Shrubs							
sym.	qty.	botanical name	common name	size	spacing	root	
CS	24	Cornus solonifera 'Farrow'	Arctic Fire Red Twig Dogwood	No. 3	5' o.c.	cont.	
TM	40	Taxus x media 'Densiformis'	Dense Yew	24"-30" ht.	36" o.c.	B&B	
Ornamen	tal Gras	ses, Perennials & Bulbs					
sym.	qty.	botanical name	common name	size	spacing	root	
EB	48	Echinacea purpurea 'PowWow Berry'	PowWow Berry Coneflower	No. 1	18" o.c.	cont.	
EW	48	Echinacea purpurea 'PowWow White'	PowWow White Coneflower	No. 1	18" o.c.	cont.	
HG	56	Hemerocallis 'Little Grapette'	Little Grapette Daylily	No. 1	18" o.c.	cont.	
PD	96	Penstemon 'Dark Towers'	Dark Towers Beardtongue	No. 1	24" o.c.	cont.	
Aspen Un	it Lands	scape					
Shrubs							
sym.	qty.	botanical name	common name	size	spacing	root	notes
HP	35	Hydrangea paniculata 'Little Quick Fire'	Little Quick Fire Panicle Hydrangea	No. 3	5' o.c.	cont.	Use in Shade Exposi
TM	136	Taxus x media 'Densiformis'	Dense Yew	24"-30" ht.	36" o.c.	B&B	
Ornamen	tal Gras	ses, Perennials & Bulbs					
sym.	qty.	botanical name	common name	size	spacing	root	notes
AC	108	Aralia cordata 'Sun King'	Sun King Japaense Spikenard	No. 1	30" o.c.	cont.	Use in Shade Exposi
EB	15	Echinacea purpurea 'PowWow Berry'	PowWow Berry Coneflower	No. 1	18" o.c.	cont.	Use in Sun Exposure
EW	15	Echinacea purpurea 'PowWow White'	PowWow White Coneflower	No. 1	18" o.c.	cont.	Use in Sun Exposure
HA	28	Hemerocallis 'Always Afternoon'	Always Afternoon Daylily	No. 1	18" o.c.	cont.	Use in Sun Exposure
HGS	126	Heuchera 'Green Spice'	Green Spice Coralbells	No. 1	18" o.c.	cont.	Use in Shade Exposi
HPP	126	Heuchera 'Purple Palace'	Purple Palace Coralbells	No. 1	18" o.c.	cont.	Use in Shade Exposi
PD	16	Penstemon 'Dark Towers'	Dark Towers Beardtongue	No. 1	24" o.c.	cont.	Use in Sun Exposure
PT	250	Pachysandra terminalis	Japanese Spurge	No. 1	18" o.c.	cont.	Use in Shade Exposi
1 1							

- This Plant Schedule reflects the total amount of each plant needed for the project, with the exception of those that are exposure dependant. The exposure dependent amounts are the total needed divided between the correlated plants, each showing the total amount needed for the project.



Mail Kiosk North Enlargement



Mail Kiosk South Enlargement



design studio

landscape architecture / land planning

750 Forest Ave. - Suite 101 Birmingham, MI 48009

T:: 248.594.3220

Enlargement Details

■ project title:

Scripps District

Detroit, Michigan

prepared for:

Robertson Brothers Homes 6905 Telegraph Rd. - Suite 200 Bloomfield Hills, MI 48301

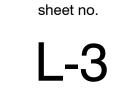
Phone: 248.282.1428

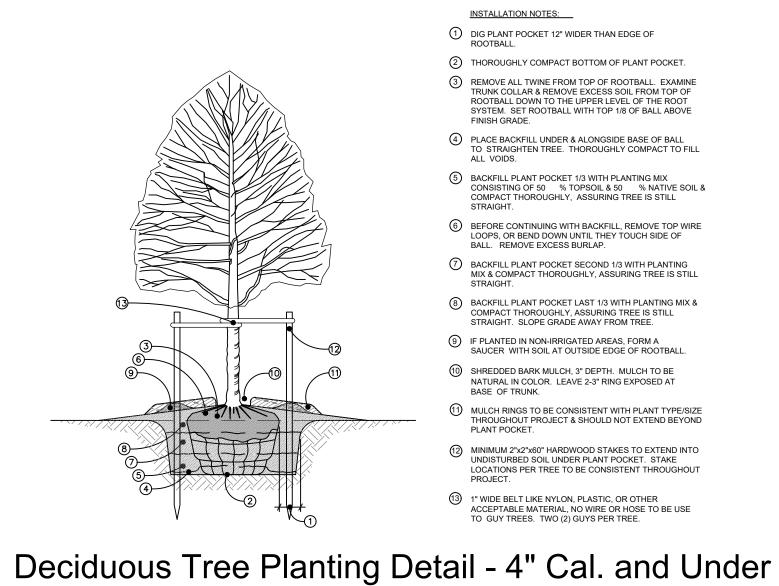
■ job number:	■ date:		
20002	03.09.2021		
drawn by:	■ checked by:		
EMJ	WTK		

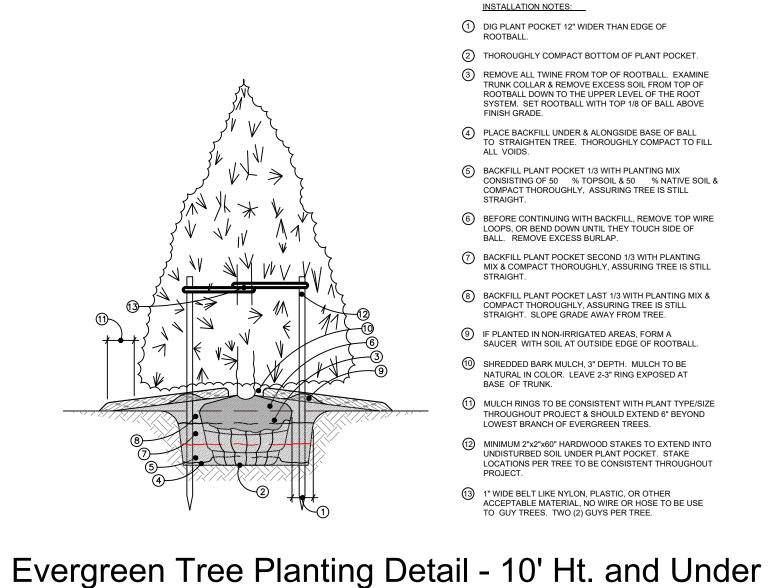
■ revisions: 03.22.2021 Issued for Site Plan Review 08.27.2021 Per Site Plan Revisions 09.07.2021 Per Site Plan Revisions 10.25.2021 Per Site Plan Revisions 01.03.2022 Per Site Plan Revisions

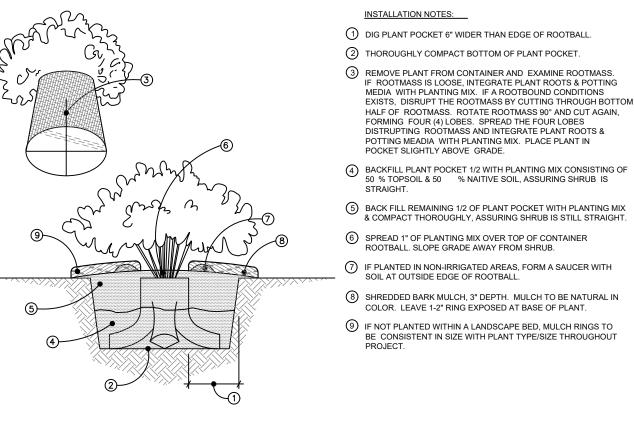












T:: 248.594.3220 SPADE CUT EDGE - 3" DEEP HARDWOOD BARK MULCH

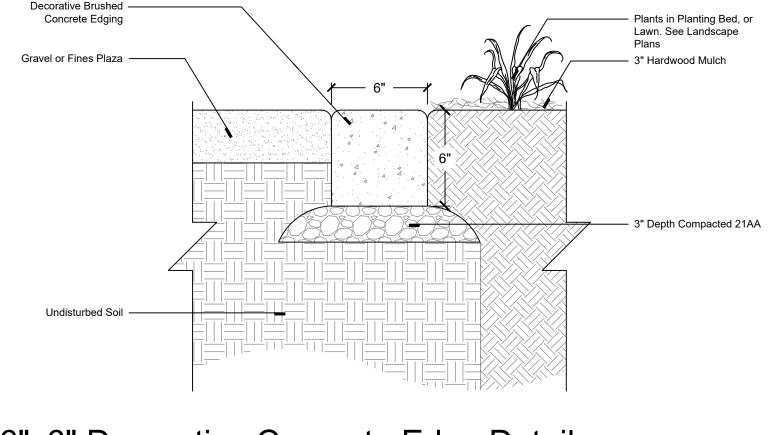
Shrub Planting Detail - Container

Scale: NTS

Spade Cut Edging Detail

according to planting plan 2"-3" Hardwood Mulch

Perennial Planting Detail



Scale: $\frac{1}{4}$ " = 1'

- Allowable Sign Height: 5'- Proposed Sign Height: 5'

6"x6" Decorative Concrete Edge Detail

Landscape Notes

Landscaped areas and plant material shall be kept free from refuse and debris. Plant materials, including lawns, shall be maintained in a healthy growing condition, neat

Tree stakes, guy wires and tree wrap shall be removed after one year.

All plant material shall be true to name and free from physical damage and wind burn.

Plants shall be full, well-branched, and in a healthy, vigorous growing condition. Plants shall be watered before and after planting is complete.

All trees must be staked, fertilized, and mulched and shall be guaranteed to exhibit a normal growth cycle for at least one (1) full year following planting.

All material shall conform to the guidelines established in the most recent edition of the American Standard for Nursery Stock. Provide clean backfill soil, using material stockpiled on site. Soil shall be screened and free of any debris, foreign material, or stone.

"Agriform" tabs or similar slow-release fertilizer shall be added to the planting pits before being backfilled.

Amended planting mix shall consist of 1/3 screened topsoil, 1/3 sand, and 1/3 peat. 11. All plantings shall be mulched with shredded hardwood bark, spread to a minimum depth of 3". Mulch is to be free from debris and foreign material and shall contain no

12. The Landscape Contractor shall be responsible for all work shown on the landscape drawings and specifications.

13. No substitutions or changes of location, or plant types shall be made without the approval of the Landscape Architect or Owner's representative.

14. The Landscape Architect shall be notified of any discrepancies between the plans and field conditions prior to installation. 15. The Landscape Contractor shall be responsible for maintaining all plant material in a vertical condition throughout the guaranteed period.

16. The Landscape Architect shall have the right at any stage of the installation to reject any work or material that does not meet the requirements of the plane and specifications, if requested by the owner.

17. The Contractor shall be responsible for checking plant quantities to ensure quantities on drawings and plant list are the same. In the event of a discrepancy, the

quantities on the plans shall prevail. 18. The Landscape Contractor shall seed and mulch or sod (as indicated on plans) all areas disturbed during construction, throughout the contract limits.

19. A pre-emergent weed control agent, "Preen" or equal, shall be applied uniformly to all planting beds prior to mulching.

20. The Developer and Landscape Architect reserve the right to change location of plant material and alter plant species/variety at the time of installation based upon availability and quantity of material as well as site conditions. Materials will be of similar size, appearance and growth habit.

- Limits of HardiTrim Board

Cap on top of wall

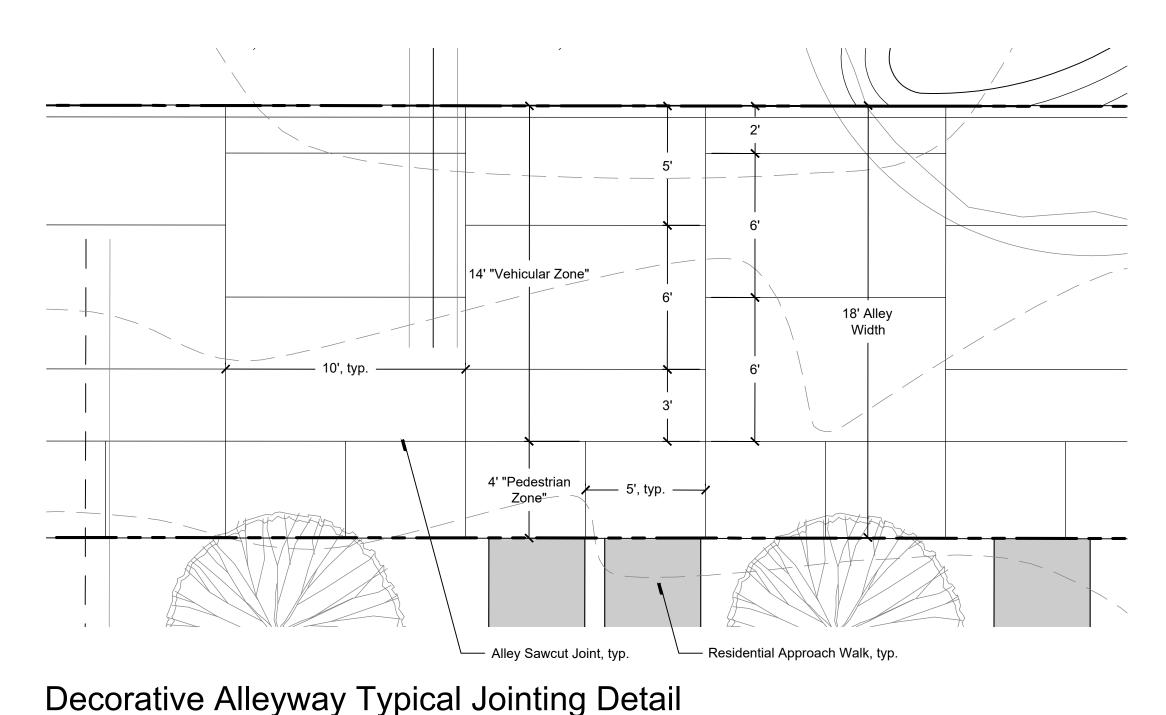
Screen Wall Top View Detail

Color of HardiTrim Boards to match buildingHardiTrim Boards shall be installed on all sides of the wall

- Color of HardiTrim Boards to match building

- HardiTrim Boards shall be installed on all sides of the wall

21. All Lawn areas shall be Seeded or Sodded 22. All Landscape Areas shall be irrigated by an automatic irrigation system with separate zones for Lawn and Plants.



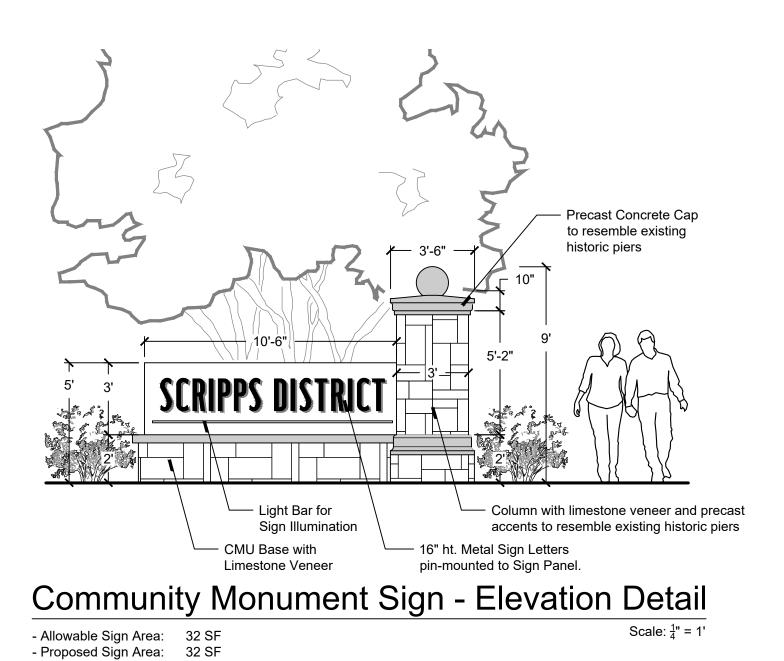
Remove container from rootball

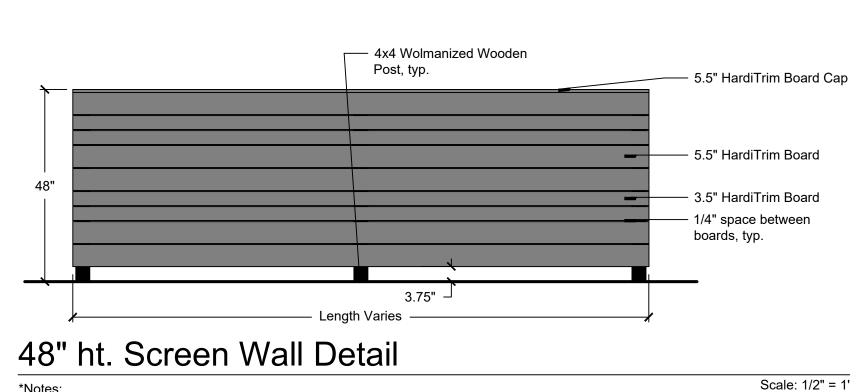
Planting Soil Mix.

See Specifications

Undisturbed soil

Install to a depth of 18".





- HardiTrim Boards on

4x4 Wolmanized

Scale: 1/2" = 1'

side of wall, typ.



landscape architecture / land planning

750 Forest Ave. - Suite 101

Birmingham, MI 48009

Landscape Details

project title:

Scripps District

Detroit, Michigan

prepared for:

sheet title:

Robertson Brothers Homes 6905 Telegraph Rd. - Suite 200 Bloomfield Hills, MI 48301

Phone: 248.282.1428

■ job number: ■ date: 20002 03.09.2021

checked by ■ drawn by EMJ WTK

■ revisions: 03.22.2021 Issued for Site Plan Review 08.27.2021 Per Site Plan Revisions 09.07.2021 Per Site Plan Revisions 10.25.2021 Per Site Plan Revisions

01.03.2022 Per Site Plan Revisions



Call before you dig.

sheet no.