

Highland Township,
Oakland County, Michigan
CONSTRUCTION PLAN DOCUMENTS
Prepared For
Highland Downtown Development Authority

Civil Engineer

NOWAK & FRAUS ENGINEERS
46777 Woodward Ave.
Pontiac, MI 48342-5032
Tel. (844) 416-3364



LEGAL DESCRIPTION

T3N, R7E, SEC 27 PART OF N 1/2 OF NW 1/4 BEG AT PT DIST S 02-00-00 W 30 FT FROM SE COR OF LOT 1 OF 'HAYDEN'S HIGHLAND HOMES', TH N 02-00-00 E 687.55 FT, TH S 88-00-00 E 206 FT, TH S 02-00-00 W 132 FT, TH S 88-00-00 E 231 FT TO CEN LINE OF MILFORD RD, TH SELY ALG SD CEN LINE TO PT ON N 1/8 LINE TH N 88-38-00 W ALG SD LINE TO BEG 8.25 A

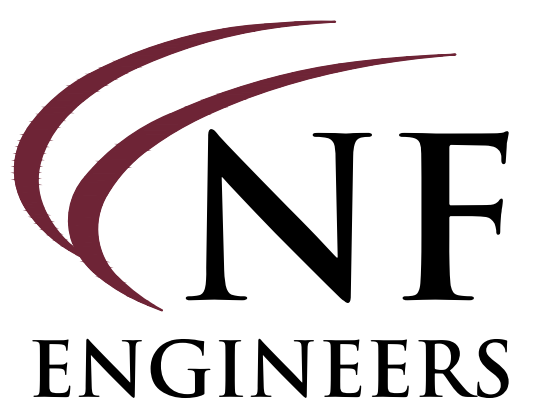
PIN: 11-27-109-027

SHEET INDEX

- C-0 Cover Sheet
- C-1 Topographic Survey
- C-2 Demolition
- C-3 Soil Erosion & Sedimentation Control Plan
- C-4 Boardwalk, Paving, & Grading Plan
- C-5 Details
- D-1 OAKLAND COUNTY WRC STORM DRAIN DETAILS
- D-2 Oakland County WRC SESC DETAILS

Project Name

**-HIGHLAND STREETScape -
BOARDWALK**

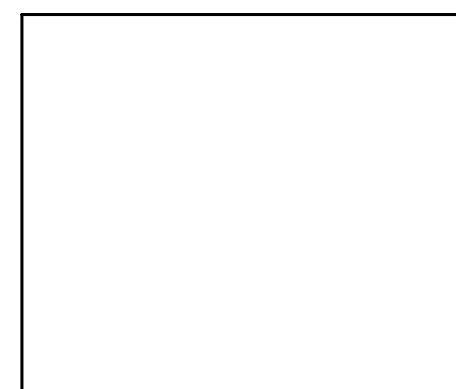


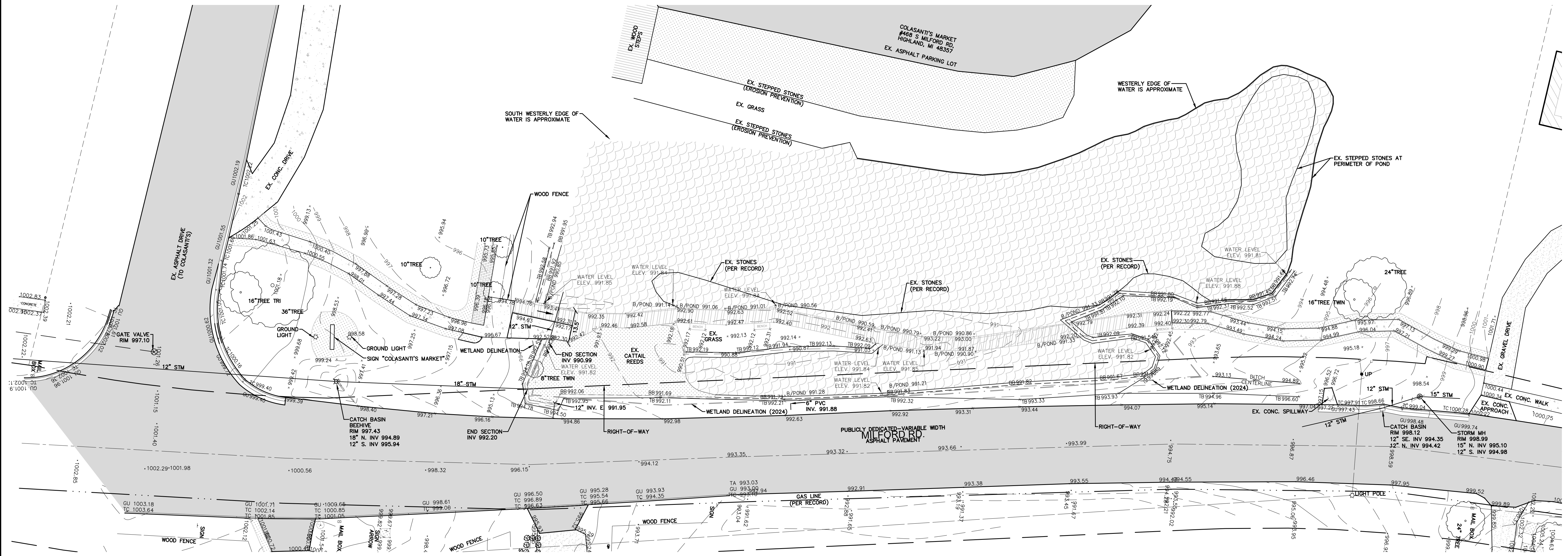
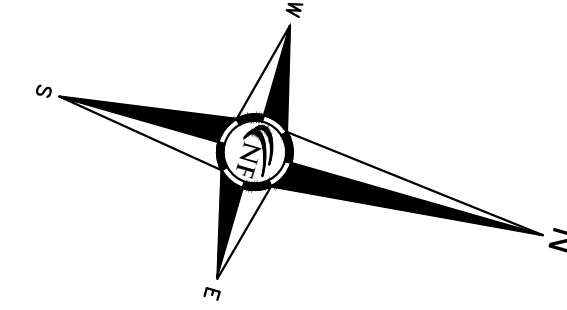
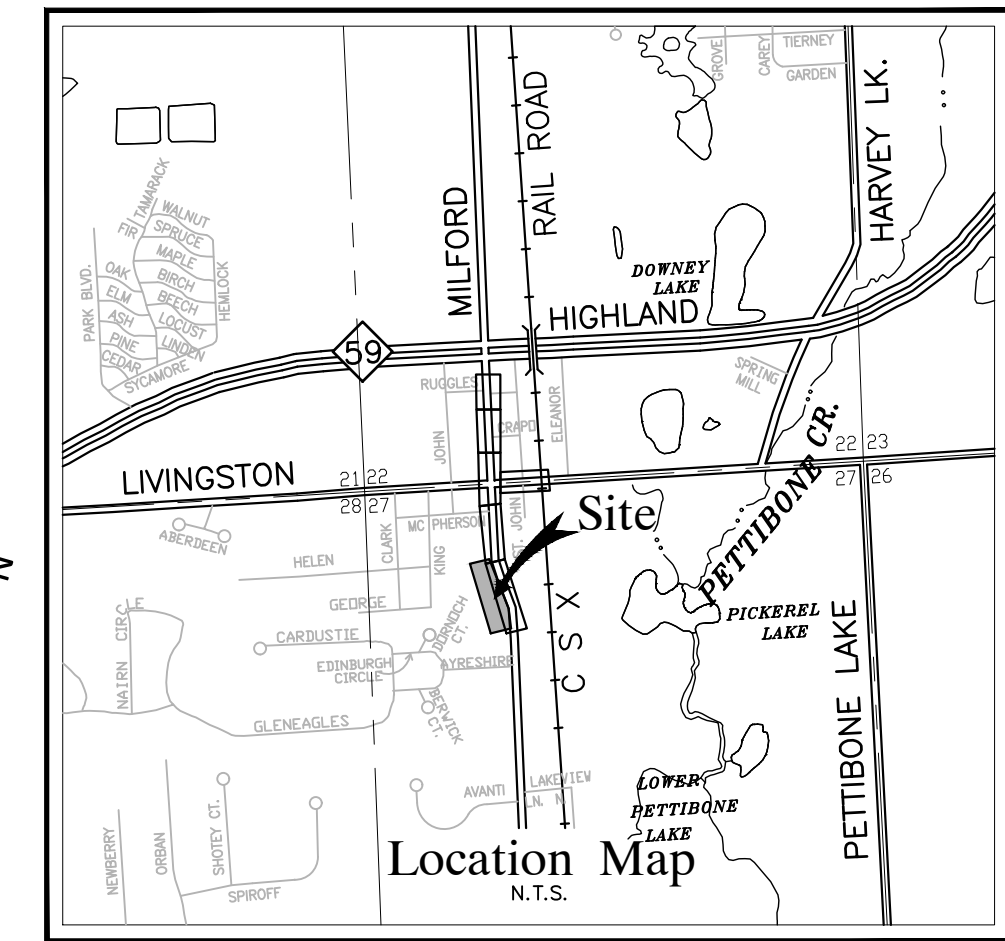
**CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS**

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WWW.NFE-ENGR.COM



N & F JOB #F803-02





FLOOD HAZARD NOTE
THIS PROPERTY IS NOT LOCATED WITHIN THE FLOOD HAZARD AREA INDICATED BY FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 26125C0313F DATED: 12-6-2023

MISS DIG / UTILITY DISCLAIMER NOTE
A MISS DIG TICKET NUMBER 2023110102965, 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 12-7-2023. THE SURVEY ONLY REFLECTS THOSE UTILITIES WHICH COULD 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.

TOPOGRAPHIC SURVEY NOTES
ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.
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.
THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

LEGEND

(Symbol)	MANHOLE	(Symbol)	EXISTING SANITARY SEWER
(Symbol)	HYDRANT	(Symbol)	EXISTING SAN. CLEAN OUT
(Symbol)	MANHOLE	(Symbol)	EXISTING WATER MAIN
(Symbol)	CATCH BASIN	(Symbol)	EXISTING STORM SEWER
(Symbol)	UTILITY POLE	(Symbol)	EX. R.Y. CATCH BASIN
(Symbol)	GUY POLE	(Symbol)	EXISTING BURIED CABLES
(Symbol)	GUY WIRE	(Symbol)	OVERHEAD LINES
(Symbol)	SIGN	(Symbol)	LIGHT POLE
(Symbol)	EXISTING GAS MAIN	(Symbol)	ASPHALT SURFACE
(Symbol)	ASPHALT SURFACE	(Symbol)	BRICK SURFACE
(Symbol)	BRICK SURFACE	(Symbol)	BRIDGE SURFACE
(Symbol)	BRIDGE SURFACE	(Symbol)	CONCRETE SURFACE
(Symbol)	CONCRETE SURFACE	(Symbol)	GRAVEL SURFACE
(Symbol)	GRAVEL SURFACE	(Symbol)	LANDSCAPED SURFACE
(Symbol)	LANDSCAPED SURFACE	(Symbol)	WATER SURFACE

SEAL

PROJECT
Highland Streetscape -
Highland Boardwalk

CLIENT
Highland Downtown
Development Authority
205 West Livingston Road
Highland, MI 48357

Contact:
Mr. Tim Colbeck
P: (248) 887-7700
F: (248) 887-7226

PROJECT LOCATION
Part of the SW 1/4
of Section 27
T. 3 N., R. 7 E.
Highland Township,
Oakland County, Michigan

SHEET
Boundary / Topographic /
Tree Survey



DATE ISSUED/REVISED

DRAWN BY:
S. Grever

DESIGNED BY:
S. Grever

APPROVED BY:
S. Sutton

DATE:
SEPTEMBER 18, 2024

SCALE: 1" = 20'

NFE JOB NO. F803-02
SHEET NO. C-1

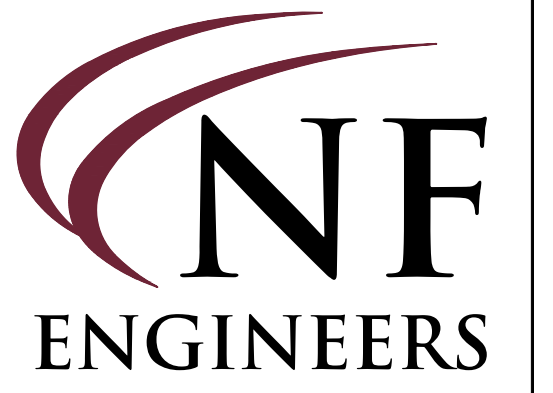
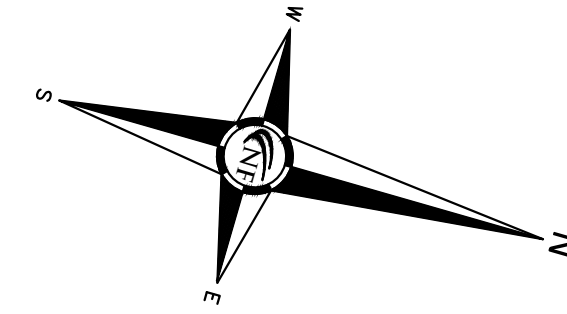
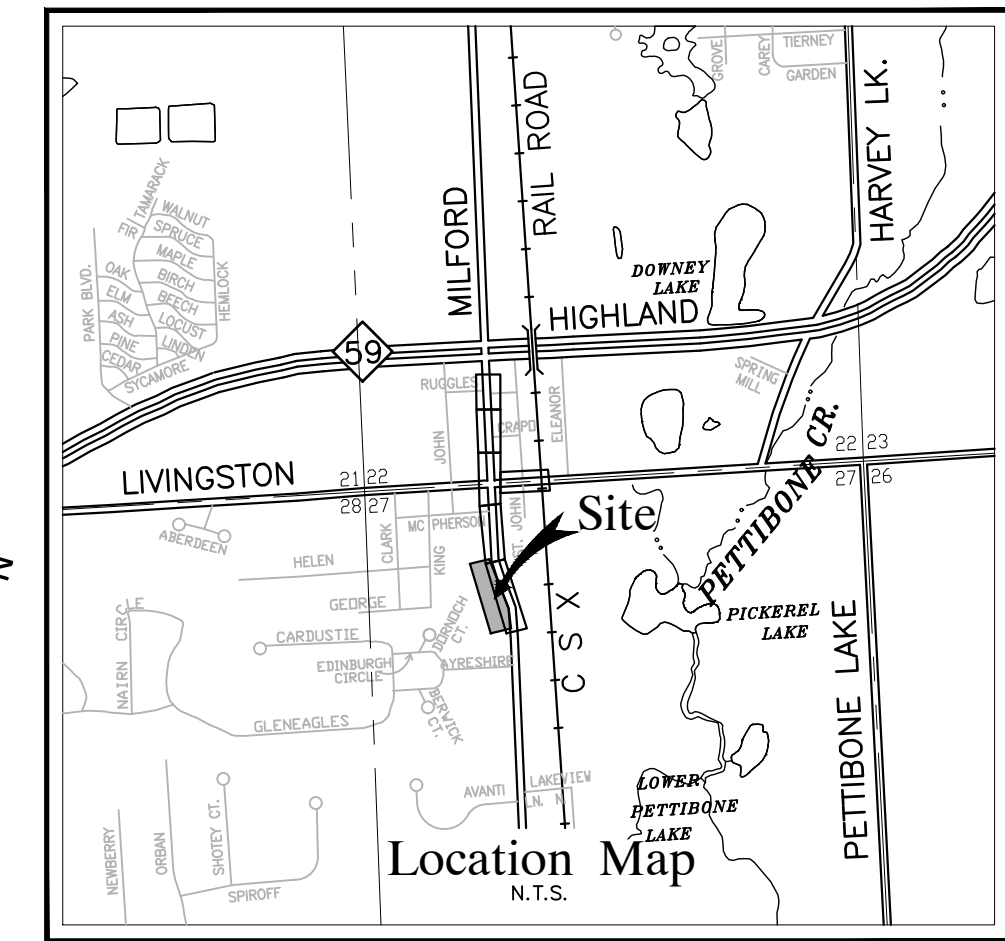
STREET CLEANING SCHEDULE (MINIMUM REQUIREMENT)

TASKS	SUN	MON	TUE	WED	THU	FRI	SAT
SCRAPE STREETS	X	X	X	X	X	X	X
SWEEP STREETS				X			

SOIL EROSION CONTROL SEQUENCE

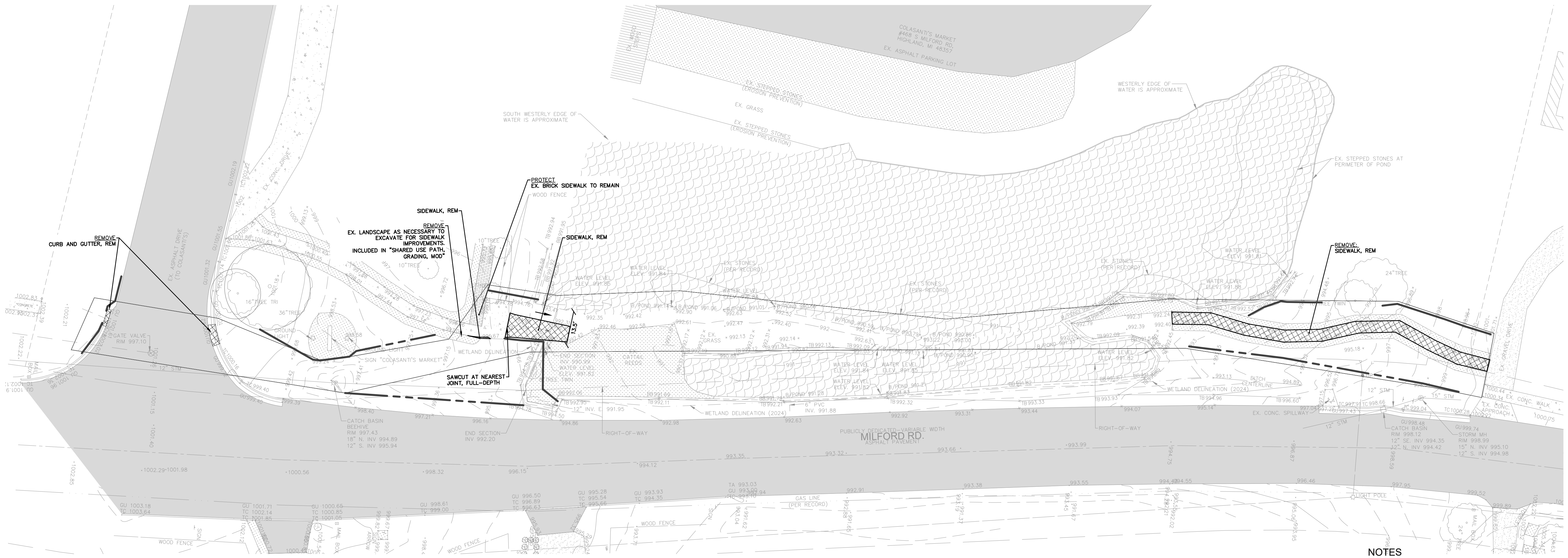
CONSTRUCTION EVENTS	2024												2025	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
1. INSTALL SILT FABRIC FENCING AND TEMP. CONSTRUCTION ACCESS PER PLAN.														
2. CONDUCT DEMOLITION AND SITE CLEARING AS REQUIRED PER PLAN.														
3. STRIP AND STOCK PILE OR REMOVE TOPSOIL PER PLAN														
4. COMMENCE MASS GRADING OF SITE.														
5. INSTALL DETENTION & SEDIMENTATION BASINS IF REQUIRED PER PLAN AND SOD.														
6. COMMENCE UNDERGROUND UTILITY INSTALLATIONS.														
7. INSTALL INLET FILTERS ON PROPOSED DRAINAGE INLET STRUCTURES PER PLAN.														
8. FILL IN TEMPORARY SEDIMENTATION TRAPS AND PAVE SITE.														
9. COMPLETE ALL BUILDING CONSTRUCTION, LANDSCAPE ACTIVITY AND SITE RESTORATION.														
10. JET VAC NEW STORM SEWER SYSTEM AS REQUIRED.														
11. REMOVE ALL TEMPORARY SOIL EROSION MEASURES.														

NOTE: THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM BY CONTRACTOR.



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LAND PLANNERS**

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NOTES

REFER TO THE WRC SOIL EROSION AND SEDIMENTATION CONTROL DETAIL SHEET FOR ALL ADDITIONAL NOTES & DETAILS (TYP)
A DISTANCE OF 0 FEET TO THE NEAREST BODY OF WATER COLASANT'S POND.
THE TOTAL AREA OF EARTH DISRUPTION IS 0.24 ACRES.
THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY CONTRACTOR.
A SOIL EROSION PERMIT IS REQUIRED FROM OAKLAND COUNTY.

SOIL DATA

THIS SITE CONSISTS OF:
SPINKS LOAMY SAND (15C), 6 TO 12 PERCENT SLOPES
HOUGHTON AND ADRIAN MUCKS (27)
BASED ON DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.
ACCESSED 2024-07-08

REMOVAL LEGEND

	INDICATES EXISTING BOARDWALK TO BE DEMOLISHED
	INDICATES AREAS OF CONCRETE PAVEMENT TO BE REMOVED
	INDICATES LIMITS OF SOIL DISRUPTION

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		EXISTING SAN. CLEAN OUT
	GATE VALVE		EXISTING WATER MAIN
	MANHOLE CATCH BASIN		EXISTING STORM SEWER
			EX. R. Y. CATCH BASIN
	UTILITY POLE		EXISTING BURIED CABLES
	GUY POLE		OVERHEAD LINES
	GUY WIRE		LIGHT POLE
			SIGN
			EXISTING GAS MAIN
			EXISTING UTILITY TO BE REMOVED
			EXISTING UTILITY TO BE ABANDONED
			CONSTRUCTION/TREE PROTECTION FENCING
	12" MAPLE		INDICATES EXISTING TREE TO BE REMOVED

SEAL

PROJECT
Highland Streetscape -
Highland Boardwalk

CLIENT
Highland Downtown
Development Authority
205 West Livingston Road
Highland, MI 48357

Contact:
Mr. Tim Colbeck
P: (248) 887-7700
F: (248) 887-7226

PROJECT LOCATION
Part of the SW 1/4
of Section 27
T. 3 N., R. 7 E.
Highland Township,
Oakland County, Michigan

SHEET
Demolition Plan



Know what's below
Call before you dig.

DATE ISSUED/REVISED

DRAWN BY:
S. Grever

DESIGNED BY:
S. Grever

APPROVED BY:
S. Sutton

DATE:
SEPTEMBER 18, 2024

SCALE: 1" = 20'

NFE JOB NO. SHEET NO.
F803-02 C-2

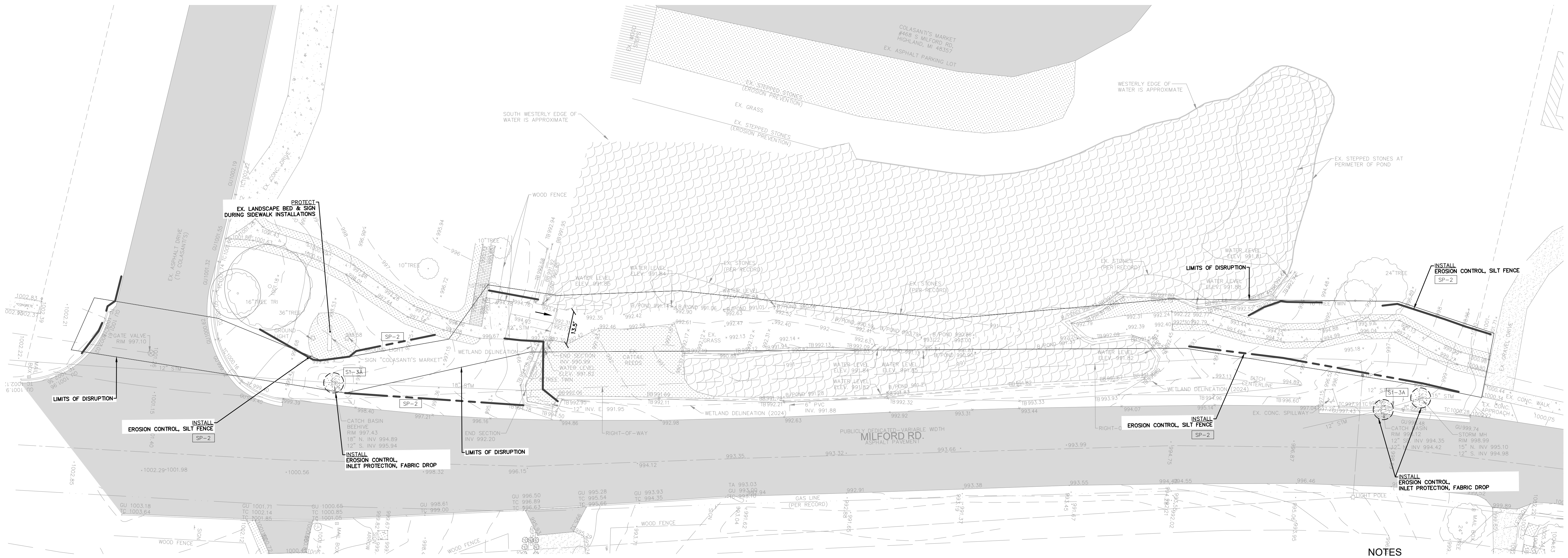
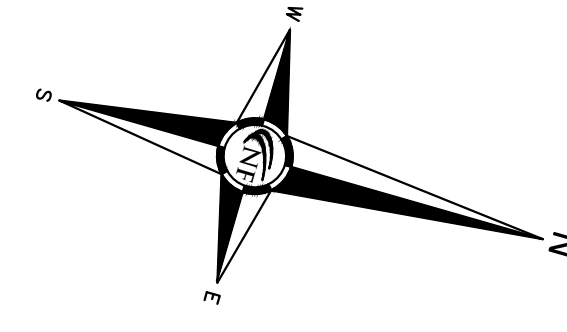
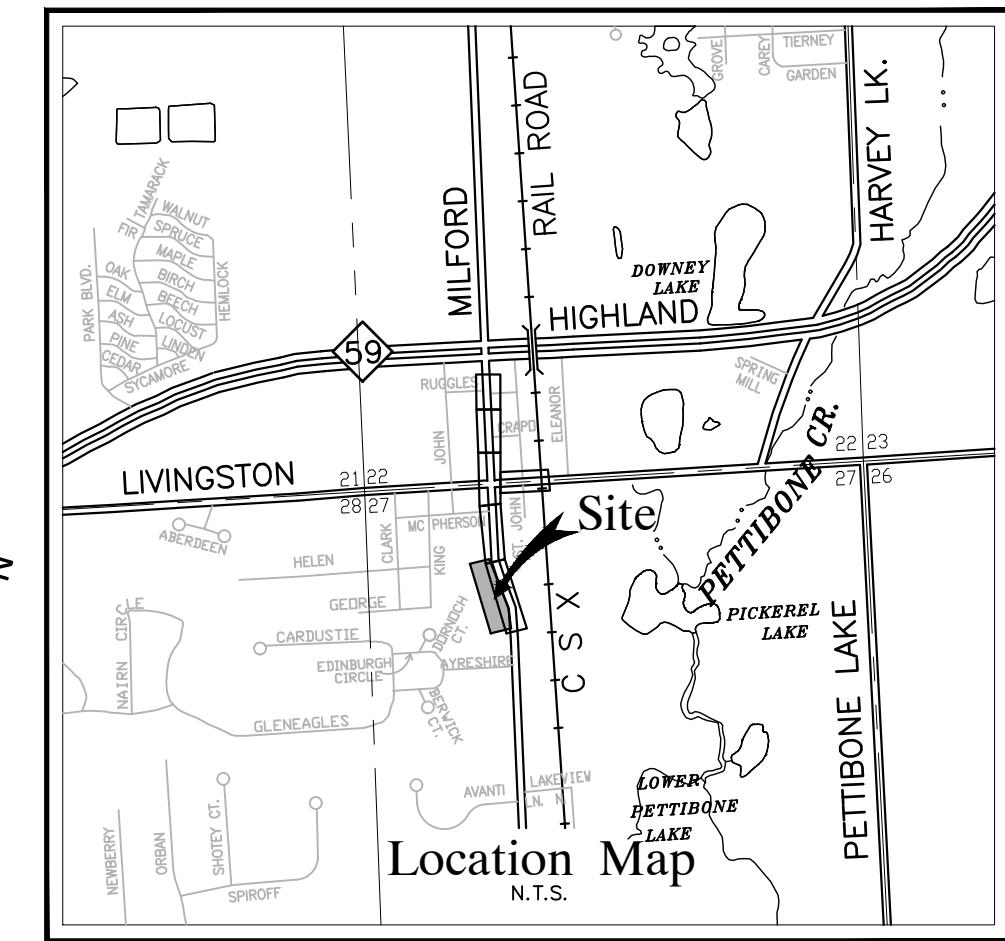
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SWEEP STREETS				X			

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LEGEND

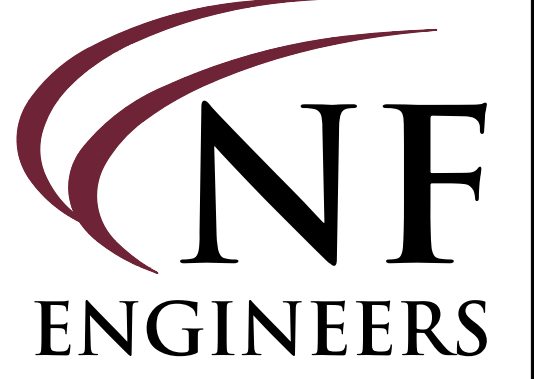
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	GATE VALVE		EXISTING WATER MAIN
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	UTILITY POLE		EXISTING BURIED CABLES
	GUY POLE		OVERHEAD LINES
	GUY WIRE		LIGHT POLE
	SIGN		EXISTING GAS MAIN
	INDICATES LIMITS OF SILT FABRIC FENCE		EXISTING UTILITY TO BE REMOVED
	INDICATES LIMITS OF SOIL DISRUPTION		EXISTING UTILITY TO BE ABANDONED
	INDICATES LOW POINT INLET FILTER OR PROPOSED DRAINAGE STRUCTURE		CONSTRUCTION/TREE PROTECTION FENCING
	OAKLAND COUNTY WATER RESOURCES COMMISSIONER STANDARD DETAIL		INDICATES EXISTING TREE TO BE REMOVED

SOIL DATA

THIS SITE CONSISTS OF:
 SPINKS LOAMY SAND (15%), 6 TO 12 PERCENT SLOPES
 HOUGHTON AND ADRIAN MUCKS (27)
 BASED ON DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.
 ACCESSED: 2024-07-08

SESC LEGEND

	INDICATES LIMITS OF SILT FABRIC FENCE
	INDICATES LIMITS OF SOIL DISRUPTION
	INDICATES LOW POINT INLET FILTER OR PROPOSED DRAINAGE STRUCTURE
	OAKLAND COUNTY WATER RESOURCES COMMISSIONER STANDARD DETAIL



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 LAND PLANNERS**

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SEAL

PROJECT
 Highland Streetscape -
 Highland Boardwalk

CLIENT
 Highland Downtown
 Development Authority
 205 West Livingston Road
 Highland, MI 48357

Contact:
 Mr. Tim Colbeck
 P: (248) 887-7700
 F: (248) 887-7226

PROJECT LOCATION
 Part of the SW 1/4
 of Section 27
 T. 3 N., R. 7 E.
 Highland Township,
 Oakland County, Michigan

SHEET
 Soil Erosion &
 Sedimentation Control
 Plan



Know what's below
 Call before you dig.

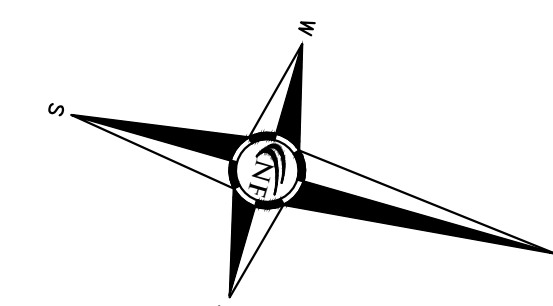
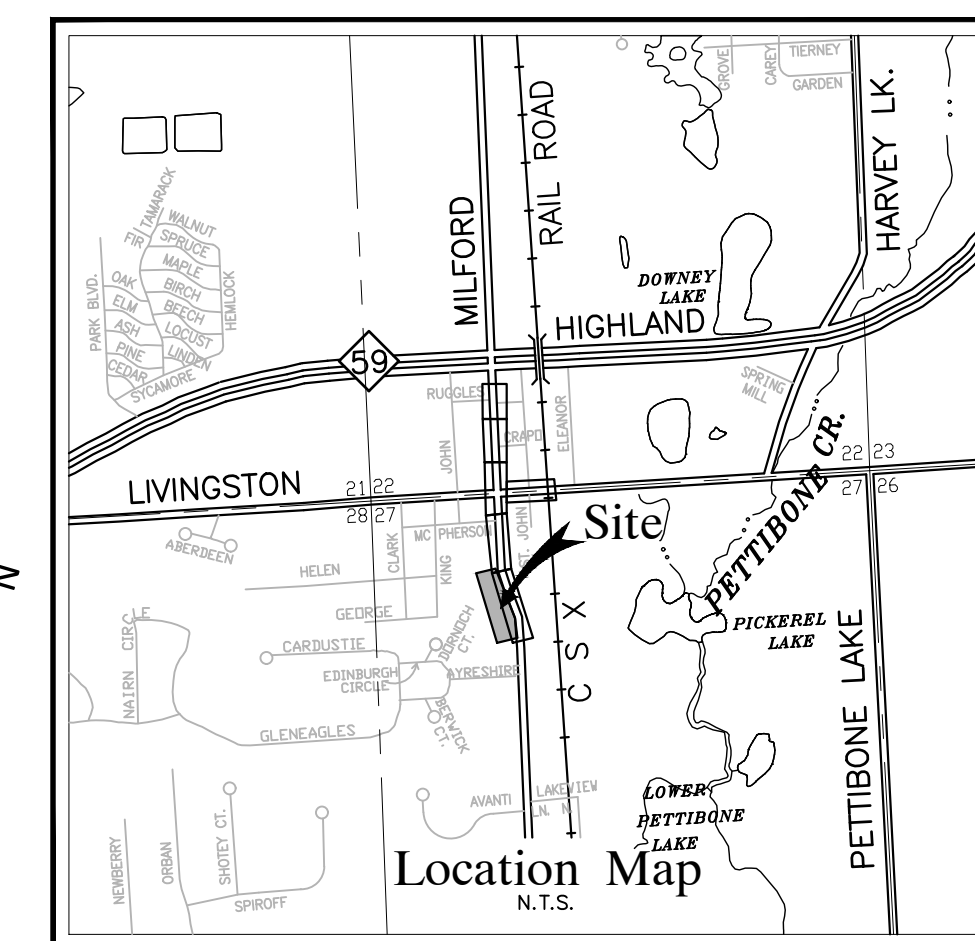
DATE ISSUED/REVISED

DRAWN BY:
 S. Grever
DESIGNED BY:
 S. Grever
APPROVED BY:
 S. Sutton

DATE:
 SEPTEMBER 18, 2024

SCALE: 1" = 20'

NFE JOB NO. SHEET NO.
F803-02 C-3



SEAL

PROJECT
Highland Streetscape -
Highland Boardwalk

CLIENT
Highland Downtown
Development Authority
205 West Livingston Road
Highland, MI 48357

Contact:
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PROJECT LOCATION
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T. 3 N., R. 7 E.
Highland Township,
Oakland County, Michigan

SHEET
Boardwalk, Paving, &
Grading Plan



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DATE ISSUED/REVISED

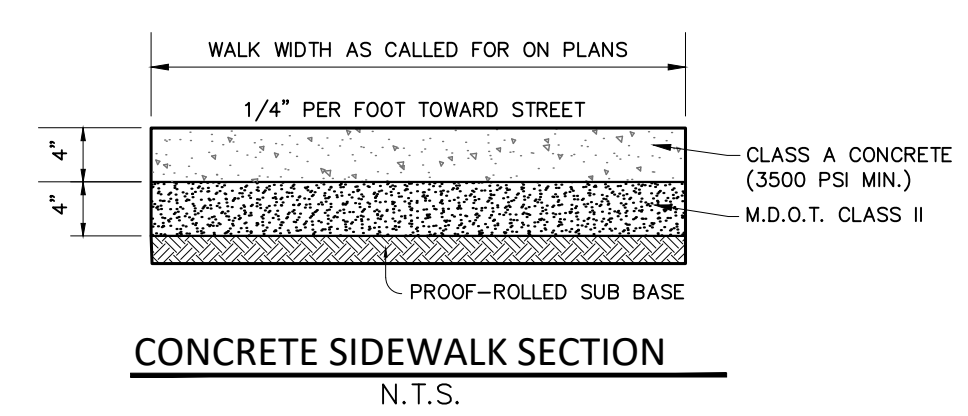
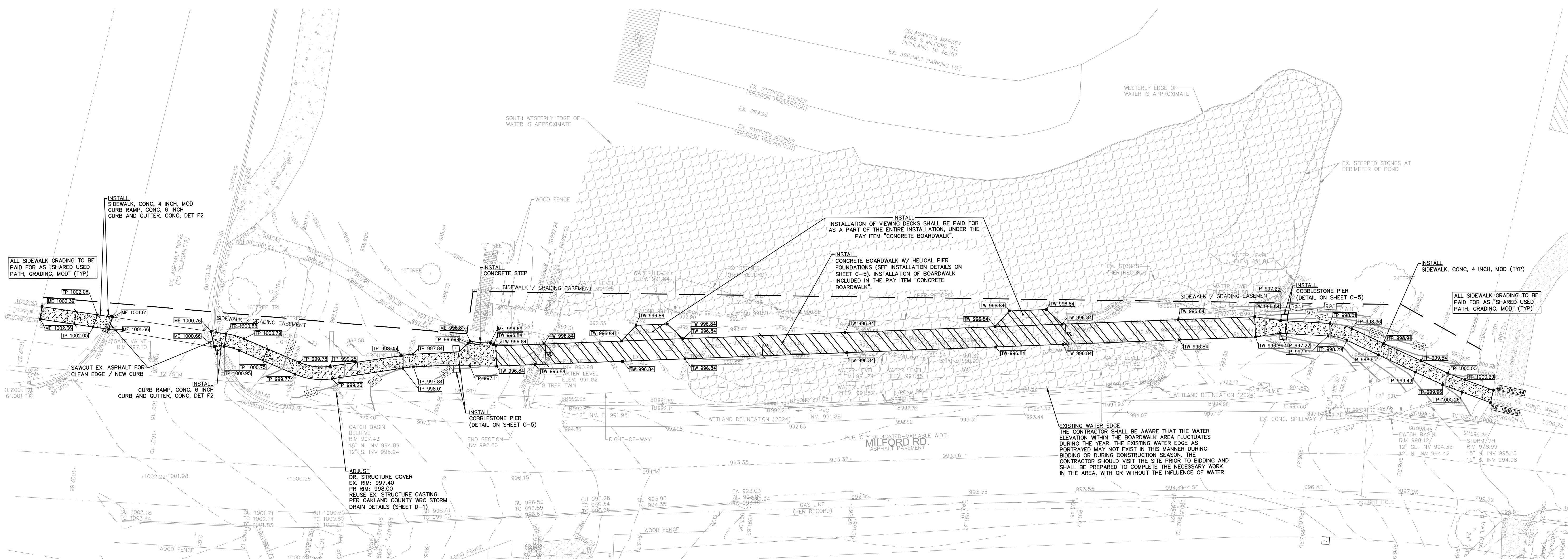
DRAWN BY:
S. Grever
DESIGNED BY:
S. Grever
APPROVED BY:
S. Sutton

DATE:
SEPTEMBER 18, 2024

SCALE: 1" = 20'

20 10 0 10 20 30

NFE JOB NO. SHEET NO.
F803-02 C-4



PROJECT RESTORATION
ALL GREENBELT AREAS DISTURBED DURING CONSTRUCTION SHALL INCLUDE RESTORATION WITH 1" SCREEN TOPSOIL AND CLASS A HYDROSEED. ANY RESULTING SLOPES AT OR EXCEEDING 1:4 SHALL INCLUDE PLACEMENT OF A MULCH BLANKET TO DETER EROSION. ALL PAID FOR AS "PROJECT RESTORATION"

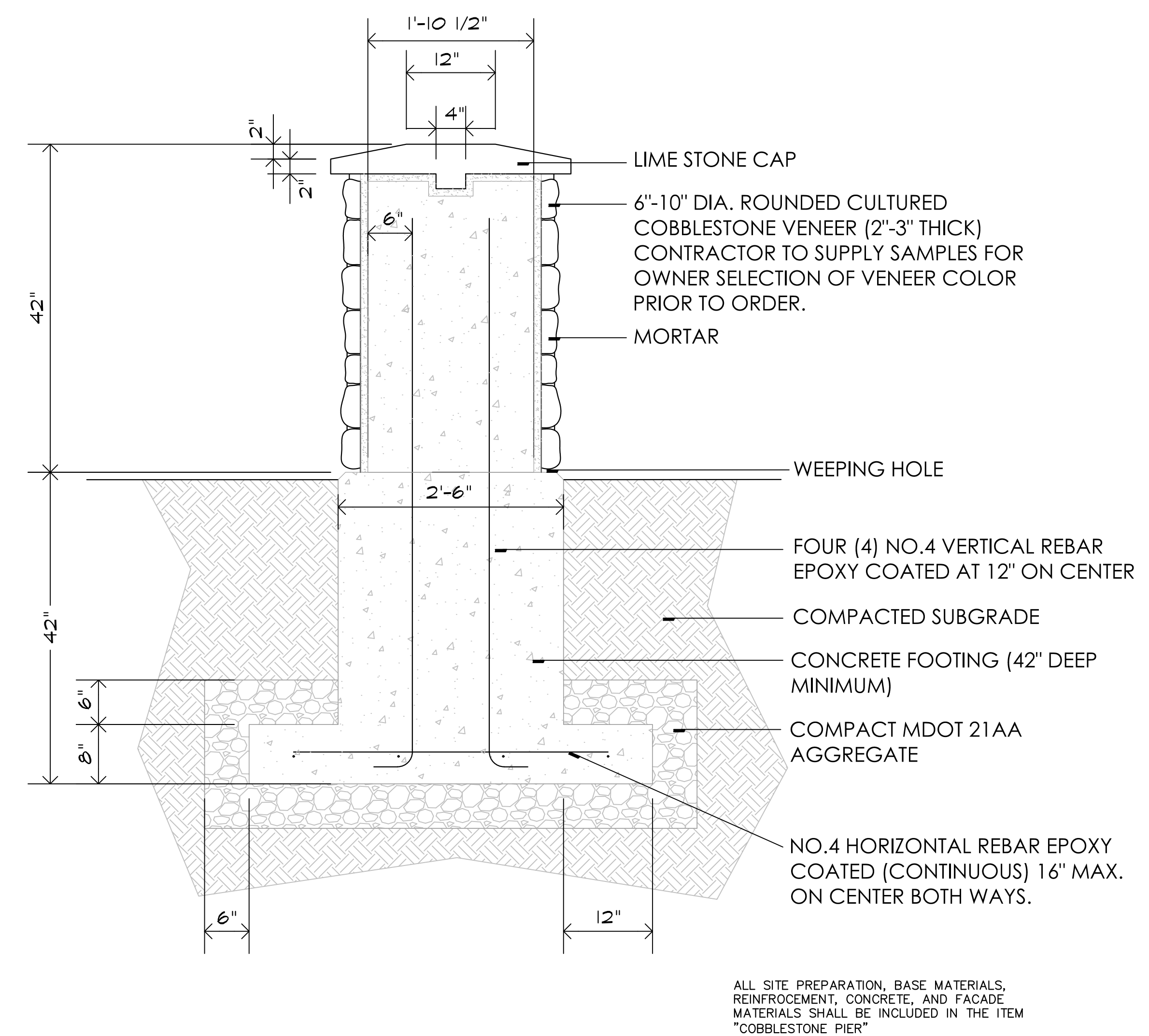
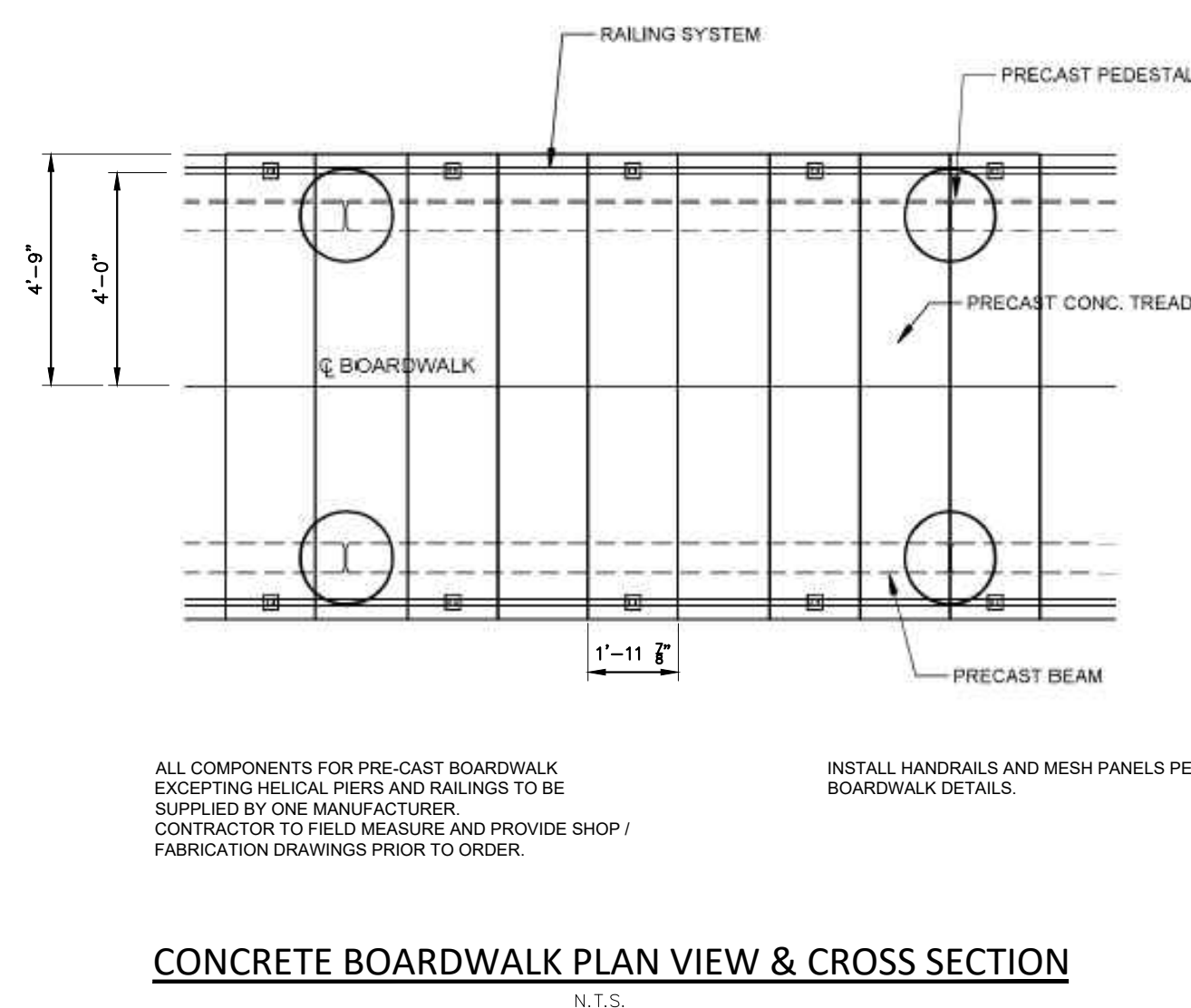
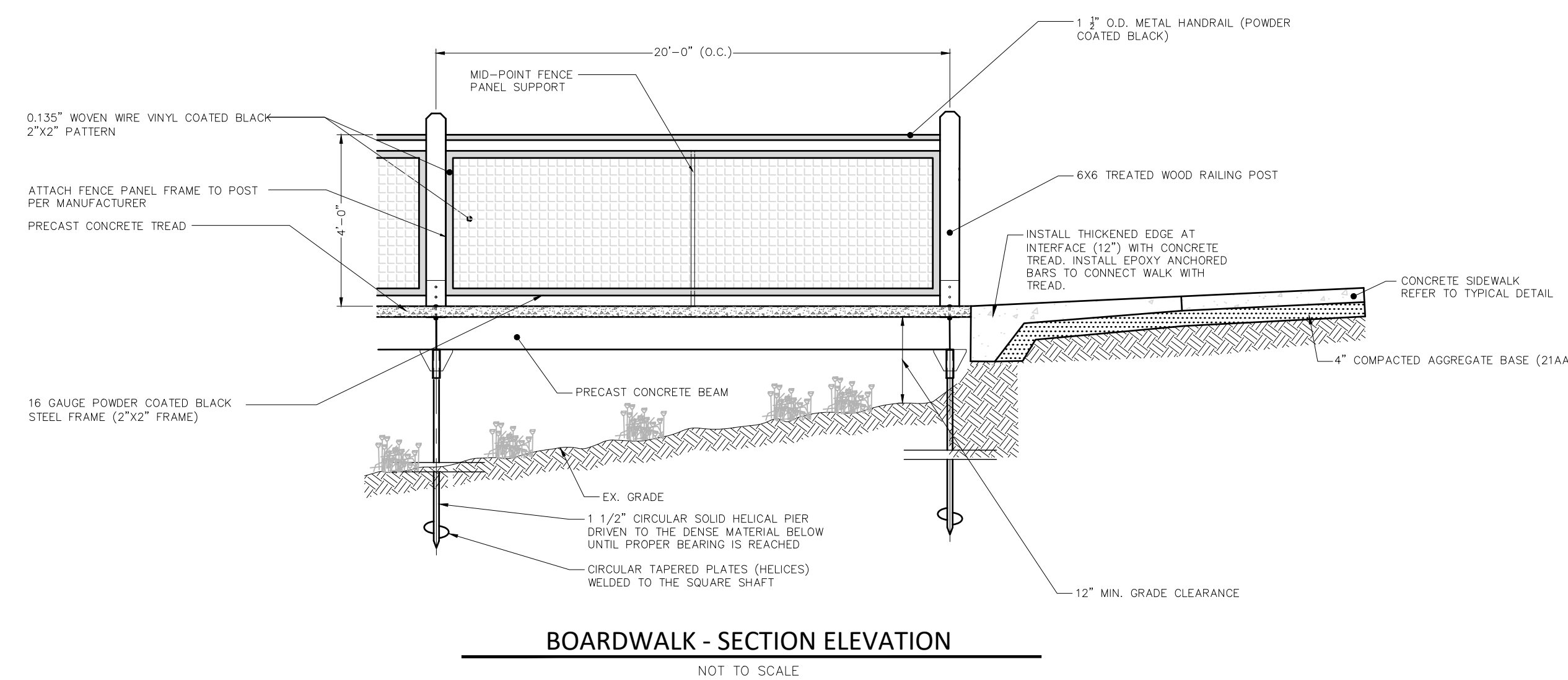
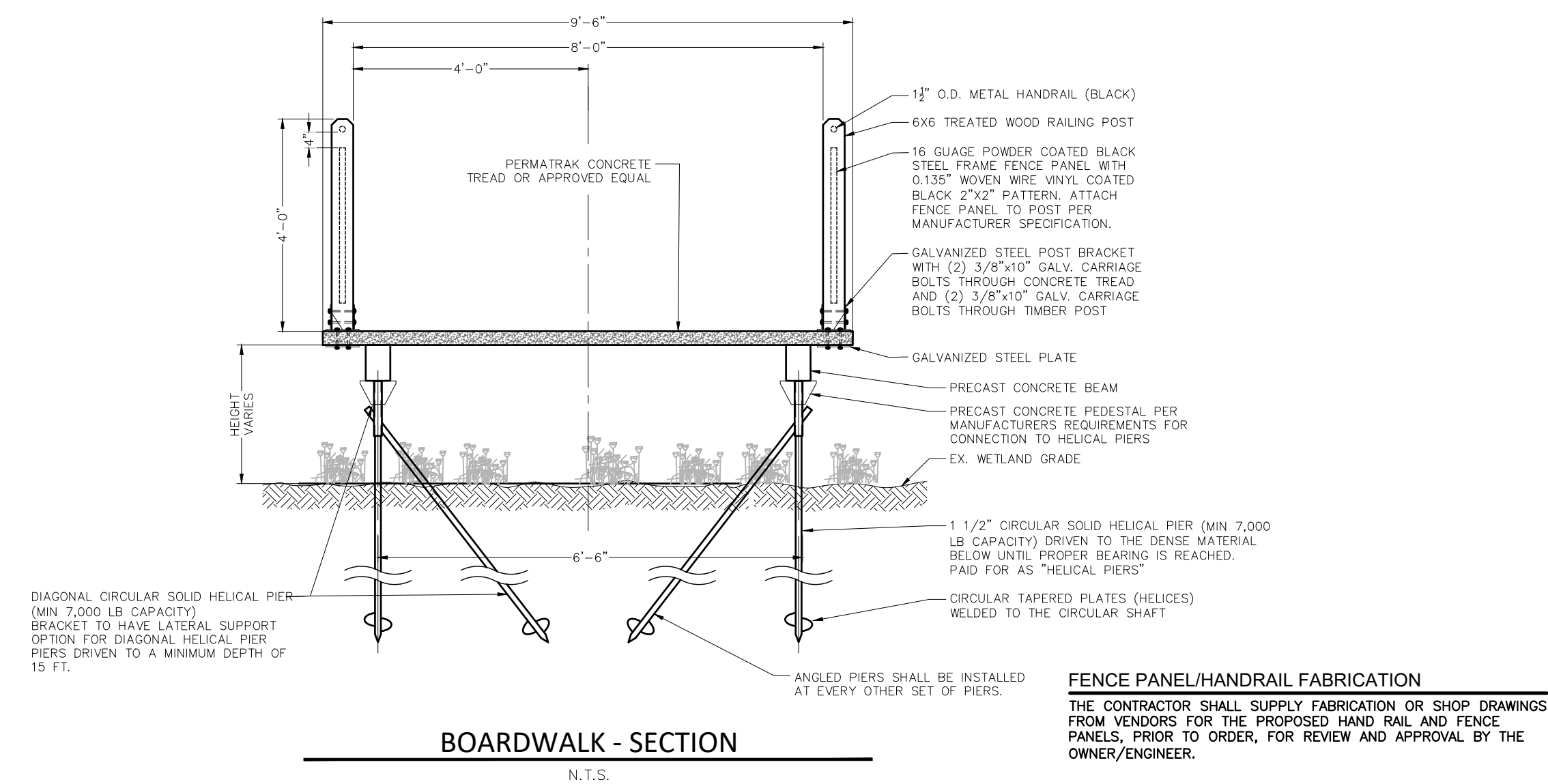
PAVING LEGEND

[Pattern]	PROPOSED CONCRETE PAVEMENT
[Pattern]	PROPOSED ASPHALT PAVEMENT

LEGEND

[Symbol]	MANHOLE	EXISTING SANITARY SEWER
[Symbol]	HYDRANT	SAN. CLEAN OUT
[Symbol]	MANHOLE	EXISTING WATERMAIN
[Symbol]	MANHOLE	EXISTING STORM SEWER
[Symbol]	UTILITY POLE	EX. R. Y. CATCH BASIN
[Symbol]	GUY POLE	EXISTING BURIED CABLES
[Symbol]	GUY WIRE	OVERHEAD LINES
[Symbol]	SIGN	LIGHT POLE
[Symbol]	C.O.	EXISTING GAS MAIN
[Symbol]	MANHOLE	PR. SANITARY SEWER
[Symbol]	HYDRANT	PR. WATER MAIN
[Symbol]	INLET	PR. STORM SEWER
[Symbol]	C.B.	PR. R. Y. CATCH BASIN
[Symbol]	MANHOLE	PROPOSED LIGHT POLE
[Symbol]	TC 600.00	PR. TOP OF CURB ELEVATION
[Symbol]	GU 600.00	PR. GUTTER ELEVATION
[Symbol]	TW 600.00	PR. TOP OF WALK ELEVATION
[Symbol]	TP 600.00	PR. TOP OF PVMT. ELEVATION
[Symbol]	FG 600.00	FINISH GRADE ELEVATION

SEAL



COBBLESTONE PIER

NTS

PROJECT
Highland Streetscape -
Highland Boardwalk

CLIENT
Highland Downtown
Development Authority
205 West Livingston Road
Highland, MI 48357

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PROJECT LOCATION
Part of the SW 1/4
of Section 27
T. 3 N., R. 7 E.
Highland Township,
Oakland County, Michigan

SHEET
DETAILS



DATE ISSUED/REVISED

DRAWN BY:
S. Grever
DESIGNED BY:
S. Grever
APPROVED BY:
S. Sutton

DATE
SEPTEMBER 18, 2024

SCALE: N.T.S.

NFE JOB NO. SHEET NO.
F803-02 C-5

SEAL

PROJECT

Highland Streetscape -
Highland Boardwalk

CLIENT

Highland Downtown
Development Authority
205 West Livingston Road
Highland, MI 48357

Contact:

Mr. Tim Colbeck
P: (248) 887-7700
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PROJECT LOCATION

Part of the SW 1/4
of Section 27
T. 3 N., R. 7 E.
Highland Township,
Oakland County, Michigan

SHEET

**OAKLAND COUNTY
WRC STORM DRAIN
DETAILS**



Know what's below
Call before you dig.

DATE ISSUED/REVISED

DRAWN BY:

E. Oshaben

DESIGNED BY:

E. Oshaben

APPROVED BY:

S. Sutton

DATE

SEPTEMBER 18, 2024

SCALE: N.T.S.

NFE JOB NO.

F803-02

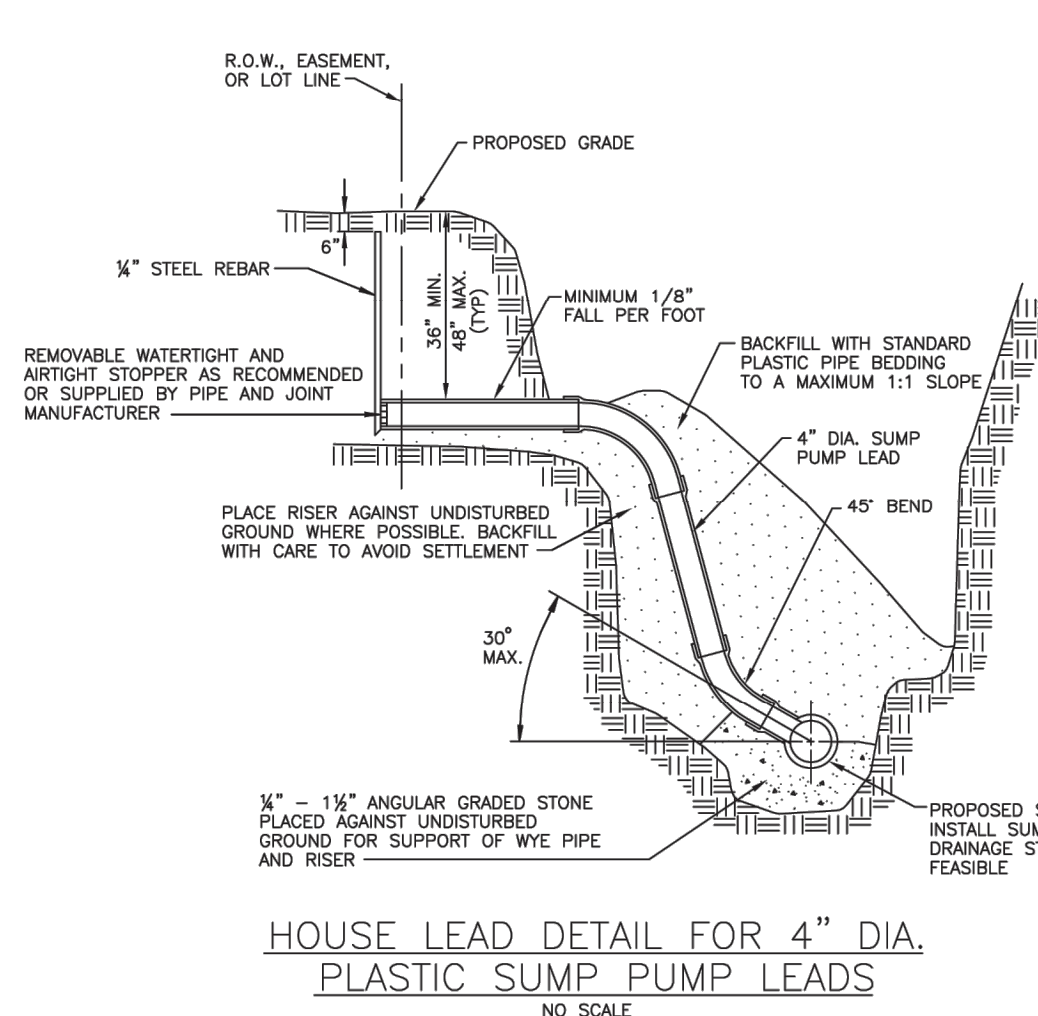
SHEET NO.

D-1

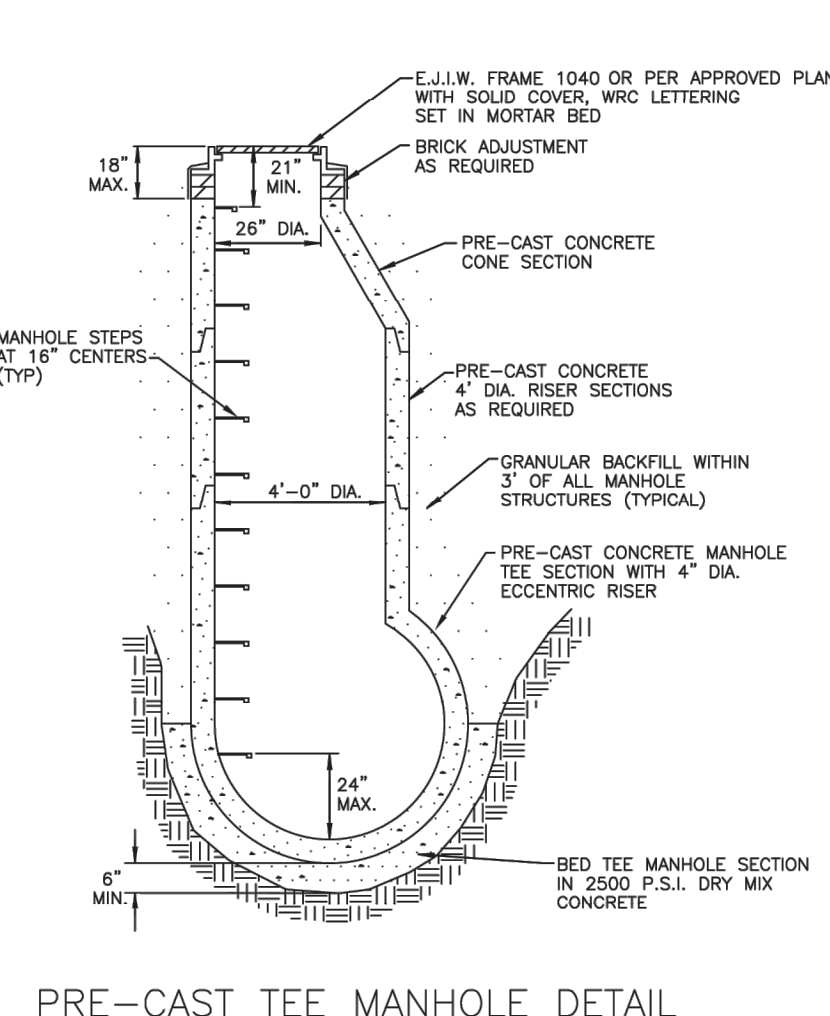
GENERAL NOTES

- Type and class of pipe shall be as specified on plans.
- Class "B" bedding shall be used throughout, unless otherwise specified on the plan.
- All end sections 18" and larger shall be provided with a bar screen unless otherwise approved.
- Standard rip-rap shall be 8"-15" fragmented rock, heavy rip-rap shall be 16"-24" fragmented rock. (No Broken Concrete)
- MANHOLE REQUIREMENTS:
 - All new catch basins, inlets, and manholes are to be manufactured to ASTM C-478 specifications.
 - All new catch basins, inlets, and manholes shall have WRC approved flexible, watertight seals where pipes pass through walls. Manholes shall be of precast sections with modified groove tongue and rubber gasket type joints. The cast manhole cone sections shall be WRC approved modified eccentric cone type.
 - Taps through manhole joints or cone sections are prohibited unless otherwise approved.
 - Manhole steps to be plastic coated steel meeting the requirements in ASTM D 2146, Type II, Grade 4930S, MA, Industries P.S.I. Polypropylene, (or approved equal). Steps to be installed during manhole manufacture. Place at 16" centers 45' from centerline of sewer.
 - Cone section with modified groove tongue joints and with stud inserts cast in place. Top to have flush surface.
 - ASTM C-478 riser section with modified groove tongue joints.
 - Res-seal, link-seal, press wedge II, or kar-n-seal boot (with stainless steel korband) flexible rubber manhole joints. (or approved equal).
 - The inside joints of manholes, catch basins, and pipe sizes over 42" and larger in diameter shall be pointed up with mortar upon completion of backfilling.
- CONCRETE PIPE REQUIREMENTS:
 - Concrete pipe to be per ASTM C76 standards.
 - It will be required to TV oil pipe 30 days after installation.
 - The contractor shall provide reinforced concrete pipe as specified on the plans.
 - All reinforced concrete pipe shall have modified groove tongue joints with e-ring type rubber gasket, per A.S.T.M. specifications C443.
 - The inside joints of manholes, catch basins, and pipe sizes over 42" and larger in diameter shall be pointed up with mortar upon completion of backfilling.
- SUMP PUMP LEAD REQUIREMENTS:
 - All sump pump leads connected to a County Drain pipe shall be pre-manufactured.
 - Sump pump leads connected to a manhole shall be cored and booted. Refer to Kor-N-Tee Tap Detail.
 - Sump pump mains and leads shall be ABS (truss and solid wall), PVC (truss, solid wall - A2000), ADS N-12 WT with premium joints.
 - Ends of all 4" sump pump leads shall be temporarily capped and their location staked, witnessed and recorded.
 - All sump pump leads to be taken to the property line, easement line or as indicated on the plan.
 - Sump pump mains must have a cleanout with a minimum inside diameter of 24" and be constructed at changes of alignment, ends of sump pump mains or as indicated on the plan.
- RESTORATION REQUIREMENTS:
 - All disturbed area within the County Drain right-of-way shall be restored as follows:
 - Under roads, sidewalks, driveways and parking areas, backfill material shall be placed loosely into trenches in six (6) inch layers with each layer compacted to not less than 95% of maximum dry density as determined by the ASTM D 1557 Compaction Standard (modified proctor compaction test). All other areas shall have each layer compacted to not less than 90% of maximum dry density.
 - Finish subgrade.
 - Place 3" thickness clean topsoil acceptable to the engineer to attain finished grade. Topsoil must not be contaminated and may not be a mixture of natural underlying soils, subsoil materials, or other materials. It must consist of natural loam, sandy loam, silty loam or clay loam humus-bearing soil adapted to the sustenance of plant life. Topsoil must be neither excessively acidic nor excessively alkaline. It must be of mineral origin, exclusive of any peat or muck.
 - Apply seed and fertilizer as follows:

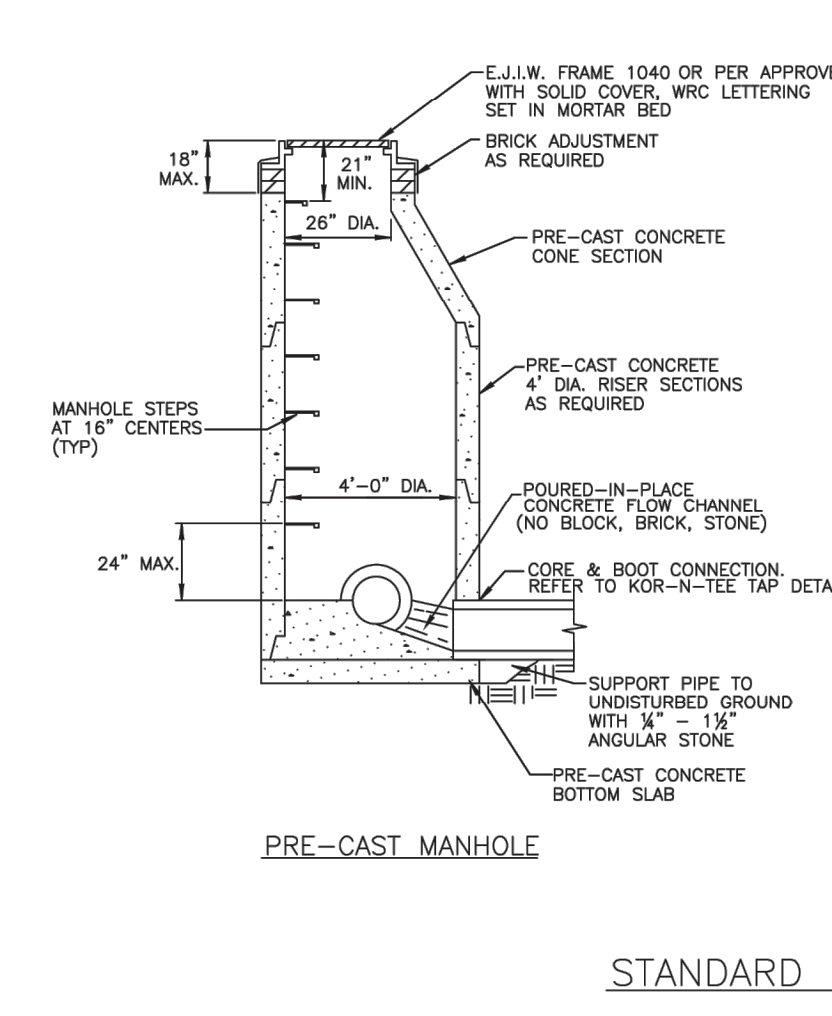
Location	Seeding Requirements	Fertilizer Requirement
Slopes and Ditch Banks, Etc.	M.D.O.T. "Roadside Mix" Turf Seed Mixture TGM (10% Kentucky Blue, 20% Perennial Ryegrass, 30% Fescue, 40% Creeping Red Fescue) applied at 220 lb/acre	M.D.O.T. Seeding and Sodding Fertilizers, Class A
Other Areas	M.D.O.T. "Roadside Mix" Turf Seed Mixture THM (30% Kentucky Blue, 20% Perennial Ryegrass, 50% Creeping Red Fescue) applied at 220 lb/acre	M.D.O.T. Seeding and Sodding Fertilizers, Class A
 - Sod is required in maintained lawn areas. Refer to WRC General Specifications for additional requirements and information.
 - apply straw or marsh hay mulch in an air-dry condition to all seeded areas over the surface to a uniform thickness of 2 tons/acre.
 - mulch shall be anchored in place with biodegradable netting, not larger than 1/2" by 2" nor smaller than 1/2" by 1/2".
 - The contractor shall be responsible to insure the growth of all seeded areas, and shall re-seed as necessary to accomplish this.
- The Storm Drain Notes and Details Sheet shall be a supplement to WRC Standards and Specifications, which are available on the WRC website (www.oakgov.com/water).



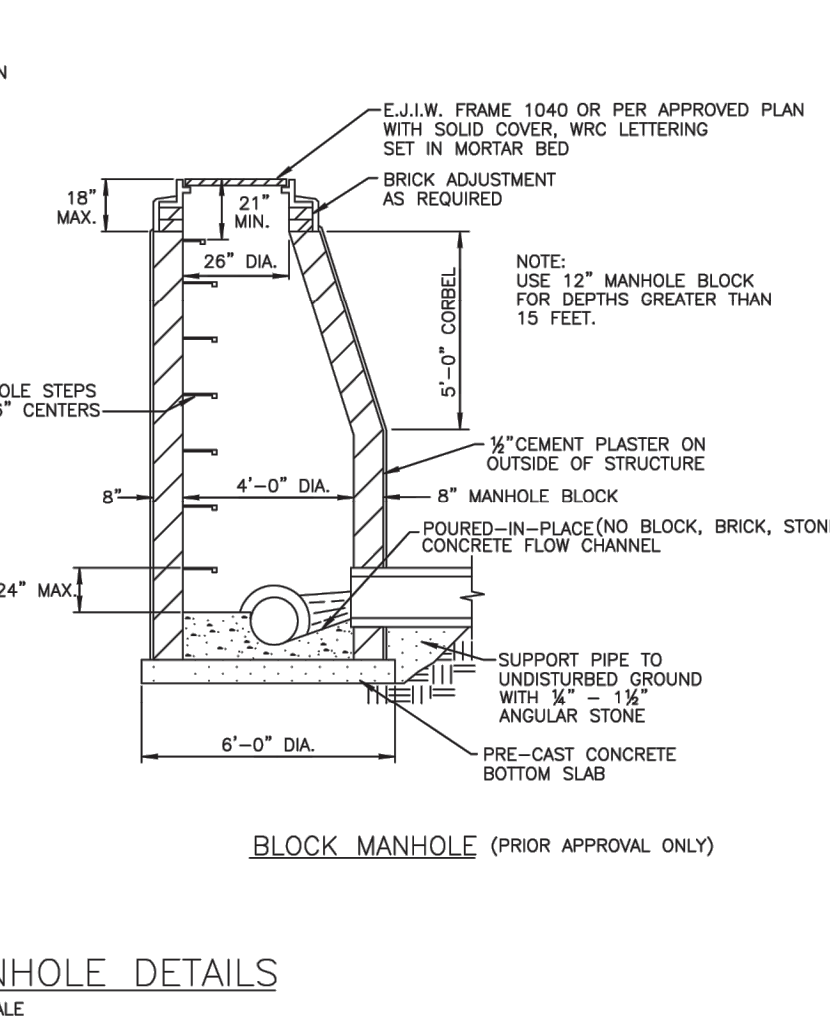
HOUSE LEAD DETAIL FOR 4" DIA. PLASTIC SUMP PUMP LEADS
NO SCALE



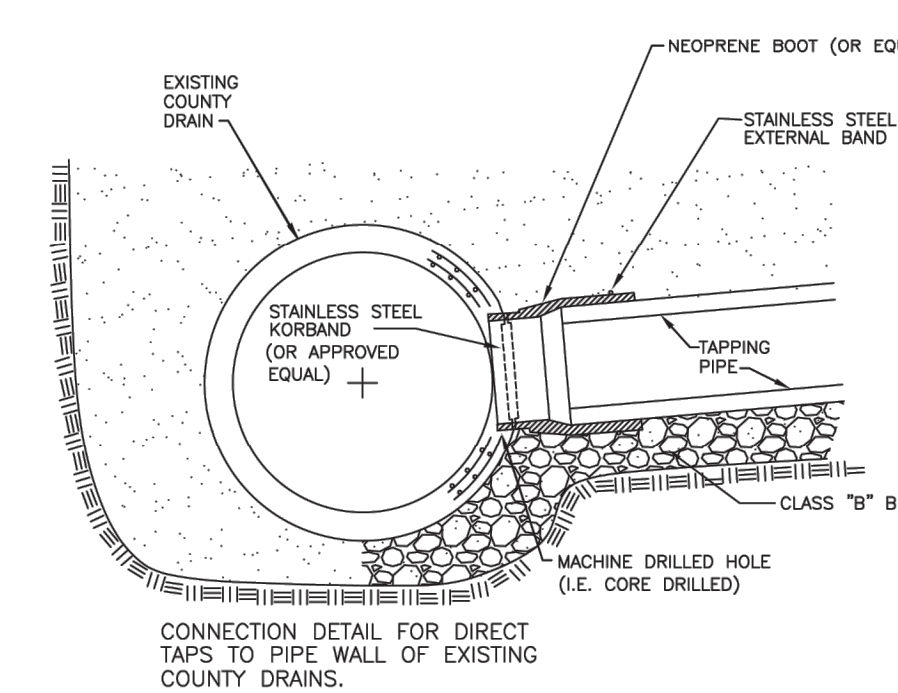
PRE-CAST TEE MANHOLE DETAIL
NO SCALE



STANDARD MANHOLE DETAILS
NO SCALE

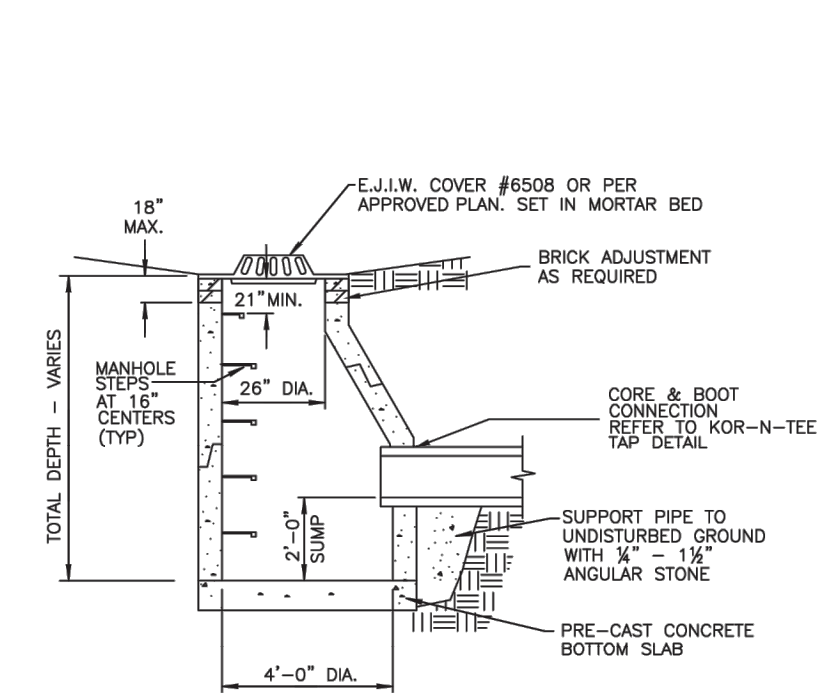


BLOCK MANHOLE (PRIOR APPROVAL ONLY)

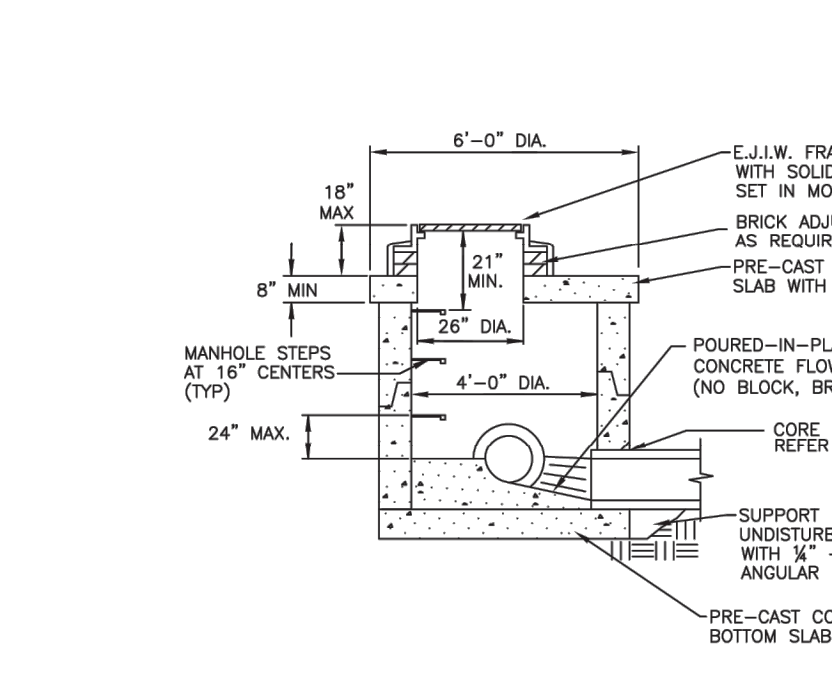


KOR-N-TEE TAP (OR APPROVED EQUAL)
NO SCALE

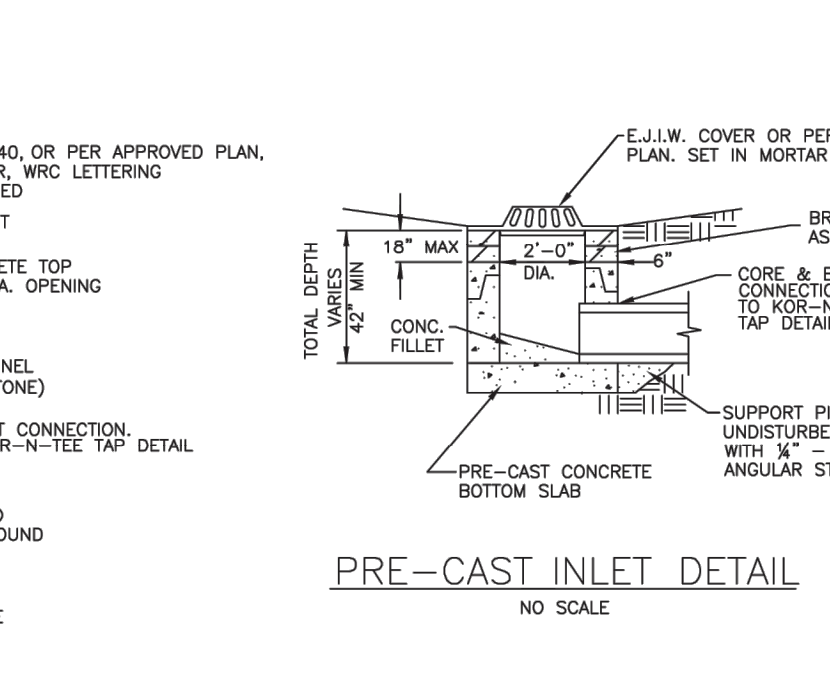
- * For non-concrete to concrete taps.
- * Use link-seal, A-lock or approved equal for concrete to concrete taps.



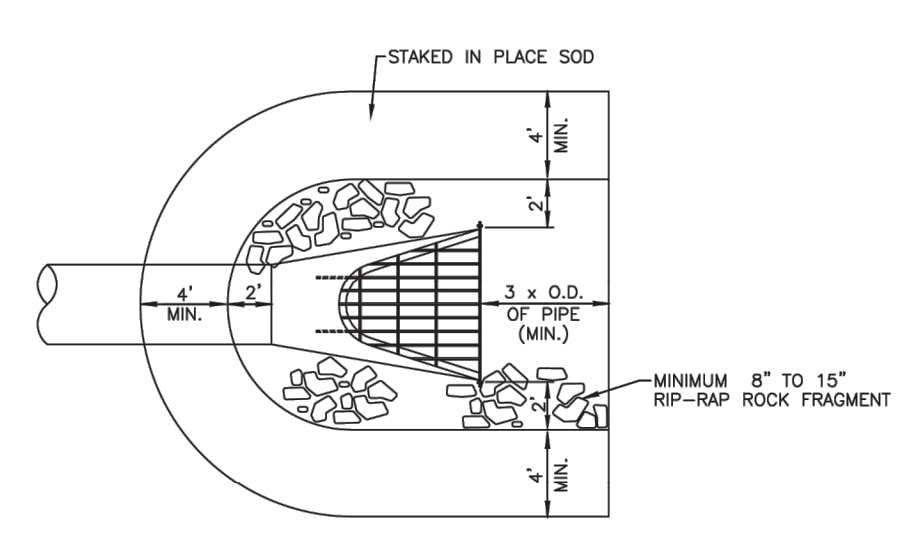
PRE-CAST CATCH BASIN DETAIL
NO SCALE



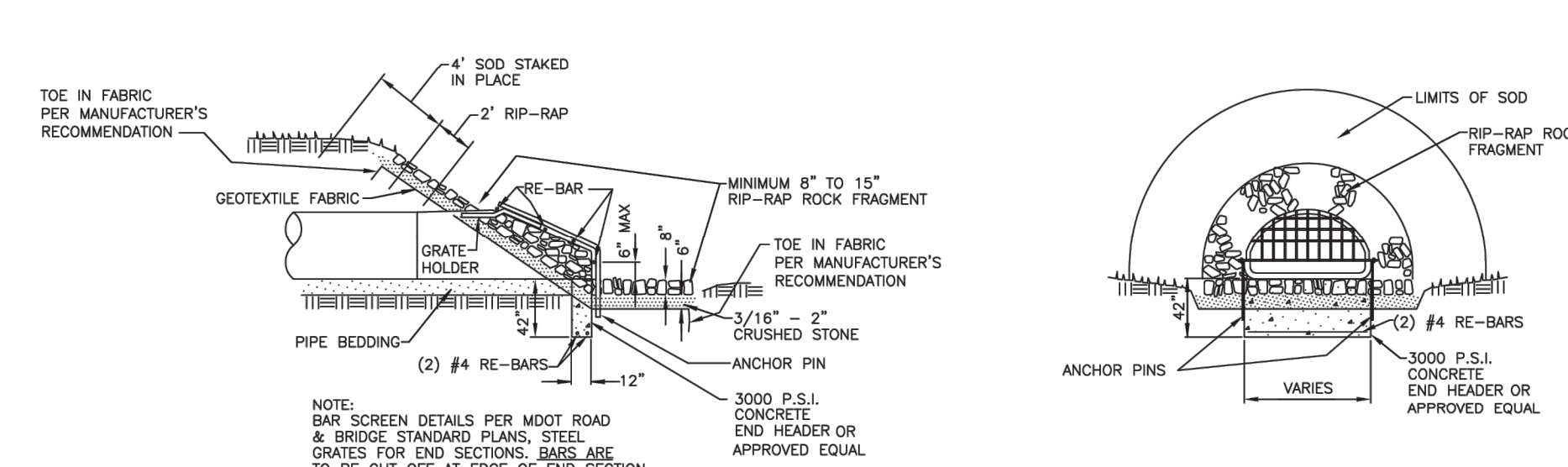
PRE-CAST LOW HEAD MANHOLE DETAIL (PRIOR APPROVAL ONLY)
NO SCALE



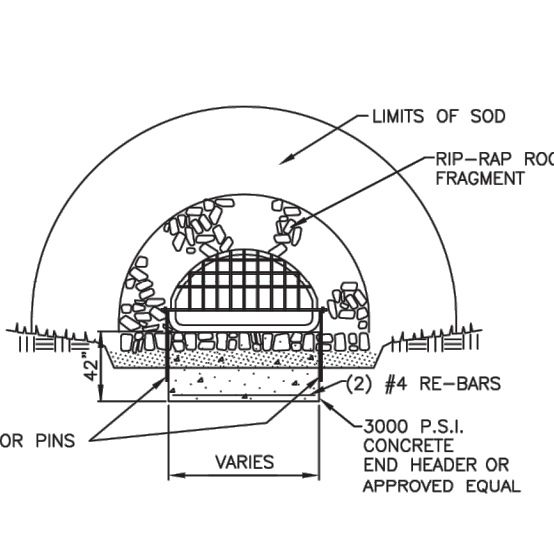
PRE-CAST INLET DETAIL
NO SCALE



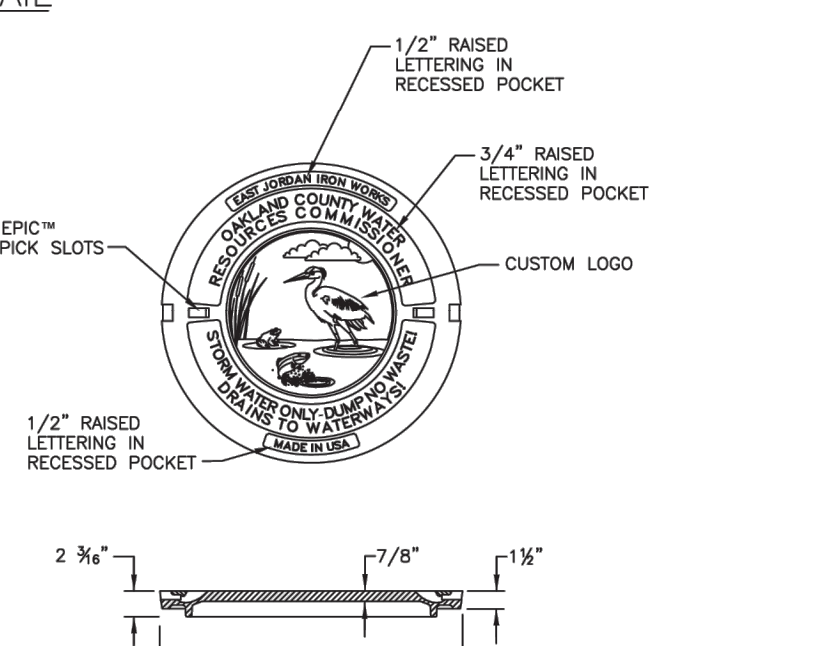
PLAN VIEW



END SECTION AND BAR SCREEN DETAIL
NO SCALE

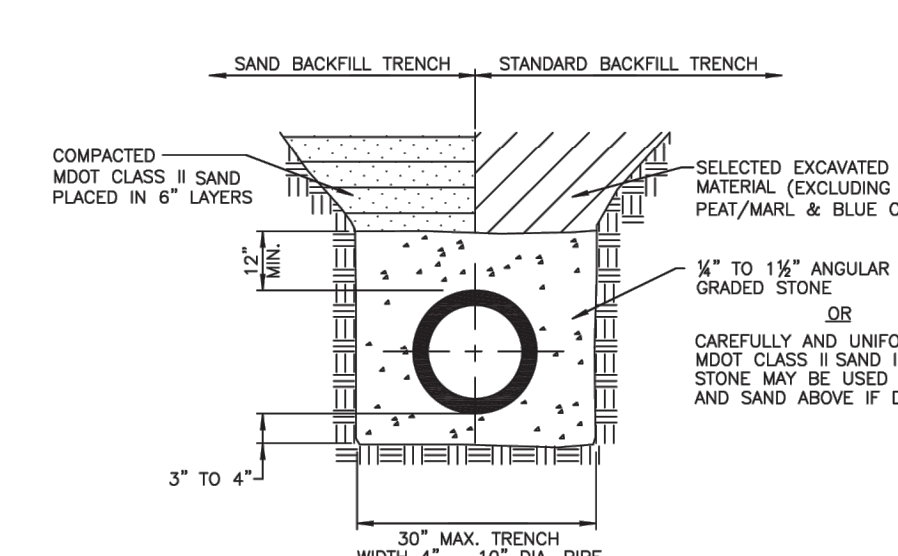


END VIEW

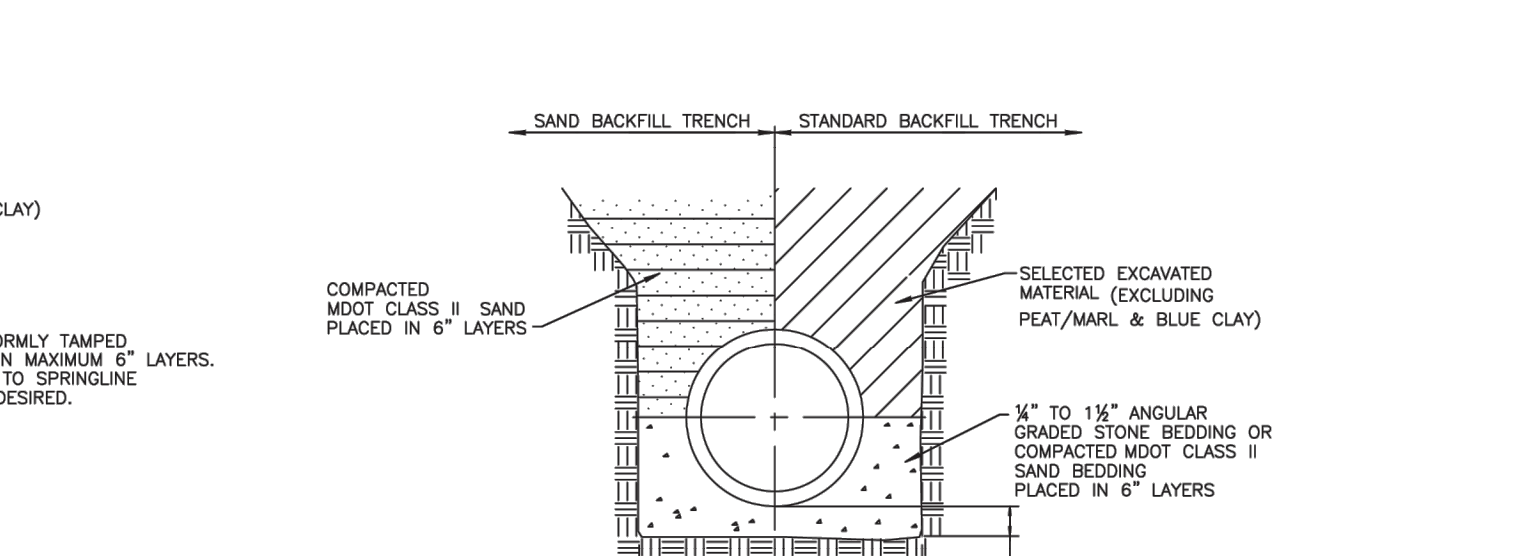


LETTERED MANHOLE COVER FOR WRC
NO SCALE

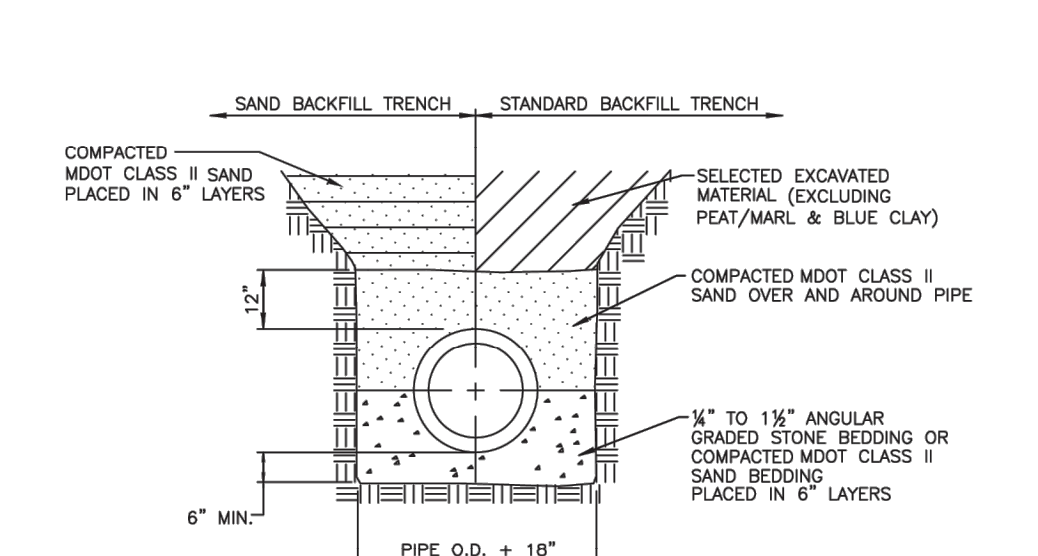
EAST JORDAN IRON WORKS OR APPROVED EQUAL
HEAVY DUTY MATERIAL ASTM A48 CL35B
CATALOG NO. 104DA
PATTERN NO. 104DA, PRODUCT NO. 104718 OMCOSTD.
2" HIGH RAISED LETTERS, 1" WIDE RAISED LETTERS
ALL IN RECESSED POCKET.



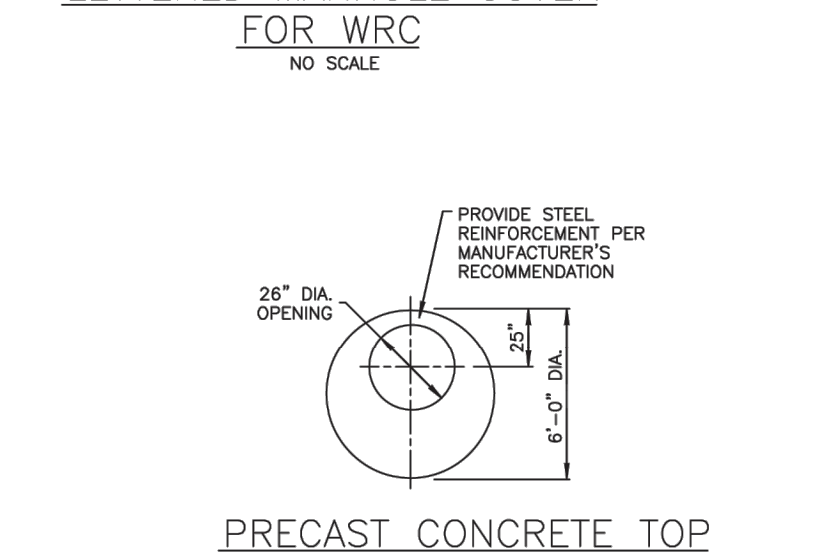
ABS (TRUSS AND SOLID WALL), PVC (TRUSS, SOLID WALL, A2000), ADS N-12 WT PIPE BEDDING DETAIL
NO SCALE



CLASS "B" BEDDING TRENCH DETAIL FOR 27" DIAMETER AND LARGER CONCRETE PIPE
NO SCALE



CLASS "B" BEDDING TRENCH DETAIL FOR 24" DIAMETER AND SMALLER CONCRETE PIPE
NO SCALE



PRECAST CONCRETE TOP SLAB DETAIL

STORM DRAIN NOTES AND DETAILS

REVISION BLOCK			
Rev. No.	By	Date	Description
1	ES	05/05/07	PROPOSED DETAIL CHANGES - NEW LOG
2	ES	06/10/08	APPROVAL PER STANDARDS COMMITTEE
3	ES	02/09/10	REVISED MANHOLE DETAILS
4	ES	04/27/10	REVISED GENERAL NOTES

ORG. DATE: 05/05/07 SCALE: NONE DESIGNED BY: WRC DRAWN BY: Mapping	ONE PUBLIC WORKS DRIVE, BLDG 66 WEST WATERBORO, MICHIGAN 48328-1907	SHEET NO.: 1 of 1
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