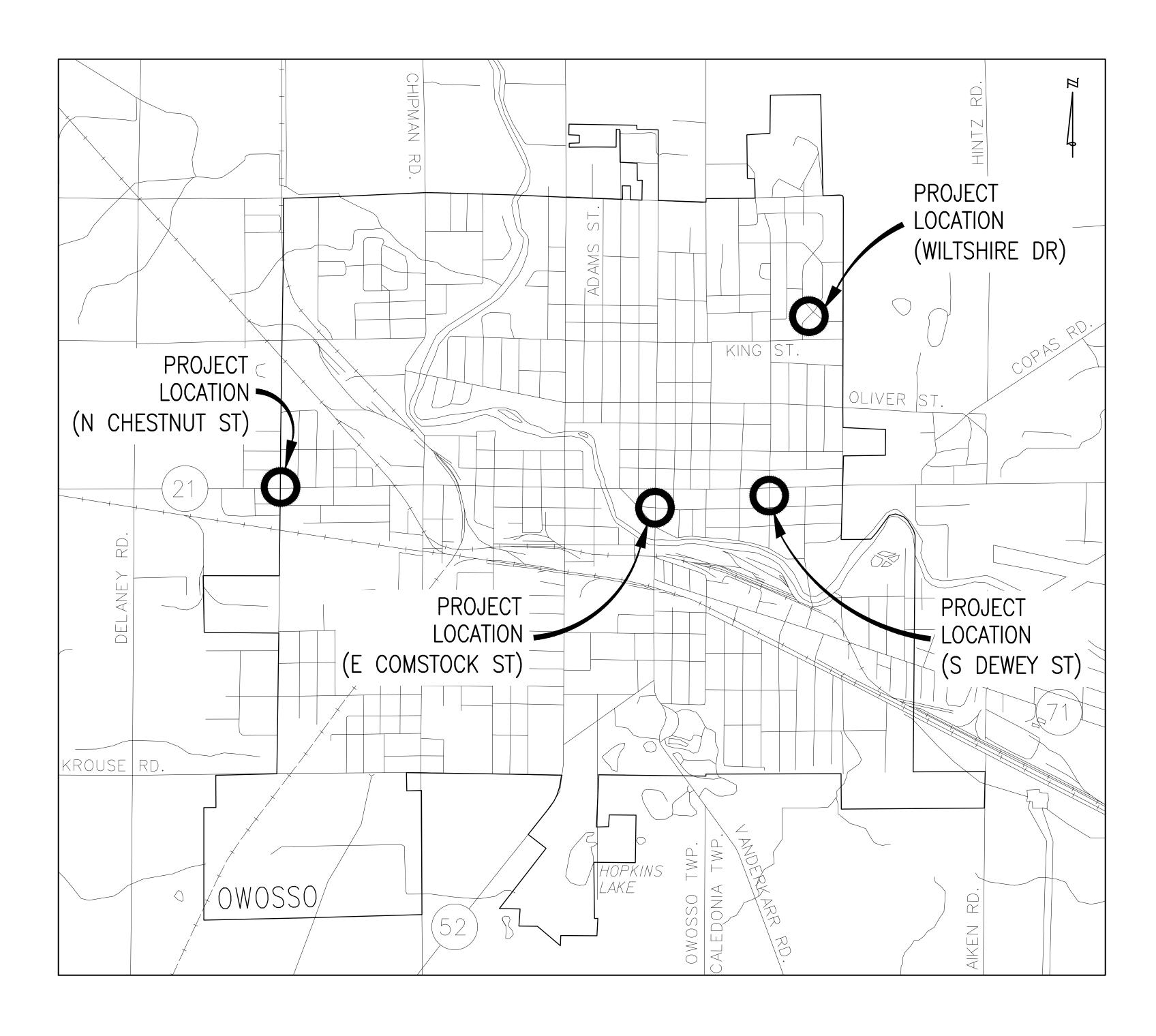
	INDEX OF SHEETS
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES
3	LEGEND
4	DETAILS
5	REMOVAL AND BYPASS PUMPING PLAN - WILTSHIRE DR.
6	SANITARY SEWER PLAN AND PROFILE - WILTSHIRE DR.
7	MAINTENANCE OF TRAFFIC - WILTSHIRE DR.
8	REMOVAL AND BYPASS PUMPING PLAN — DEWEY ST.
9	SANITARY SEWER PLAN AND PROFILE - DEWEY ST.
10	MAINTENANCE OF TRAFFIC — DEWEY ST.
11	REMOVAL AND BYPASS PUMPING PLAN - COMSTOCK ST.
12	SANITARY SEWER PLAN AND PROFILE - COMSTOCK ST.
13	MAINTENANCE OF TRAFFIC - COMSTOCK ST.
14	REMOVAL AND BYPASS PUMPING PLAN - CHESTNUT ST.
15	SANITARY SEWER PLAN AND PROFILE - CHESTNUT ST.
16	MAINTENANCE OF TRAFFIC — CHESTNUT ST.

M.D.O.T. STANDARD PLANS	
TITLE	PLAN NO.
UTILITY TRENCHES	R-83-C
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E

TRAFFIC & SAFETY STANDARD PLANS	
TITLE	PLAN NO.
TABLES FOR "L", "D" AND "B" VALUES	M0020a
MAINTENANCE — 2—LANE CLOSURE, INSIDE OF A MULTI—LANE UNDIVIDED ROADWAY, WITHA 10 MPH SPEED REDUCTION	4125B-M-TR- NFW-2LC-(IN)
GROUND DRIVEN SIGN SUPPORTS FOR TEMP. SIGNS	WZD-100-A*
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E*
* DENOTES SPECIAL DETAIL PROVIDED IN THE PROPOSAL	

CITY OF OWOSSO 2023 SANITARY SEWER REPAIRS

SHIAWASSEE COUNTY, MICHIGAN



LOCATION MAP

THE IMPROVEMENTS BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SUPPLEMENTAL SPECIFICATIONS. THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO; A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 2011 EDITION AND SECTION B (3R) OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS FOR GEOMETRICS ON LOCAL AGENCY PROJECTS, 2014 EDITION.

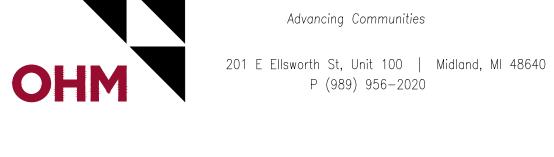
LL TRAFFIC CONTROL TEMPORARY AND PERMANENT SHALL FOLLOW 2011 EDITION IICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).

STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) AND THE MICHIGAN SAFE DRINKING WATER ACT 1976 PA 399, AS AMENDED, AND THE ADMINISTRATIVE RULES.

THIS PROJECT INCLUDES SAWCUT AND REMOVAL OF PAVEMENT, REPLACEMENT OF

SANITARY SEWER AND/OR SANITARY MANHOLES AS SPECIFIED, SANITARY SEWAGE BYPASS PUMPING AND PAVEMENT AND SIDEWALK REPAIR.

THESE PLANS WERE PREPARED FOR THE CITY OF OWOSSO BY:





PROJECT NO SHEET NO.

PROJECT NO. SHEET NO. 0020220050 1 OF 16

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION EXCEPT AS NOTED HEREIN AND IN THE PROPOSAL BOOK.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL. STATE, AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE REMOVING PAVEMENT OR FOR ANY OTHER CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.

THE CONTRACTOR SHALL NOT ENTER UPON PRIVATE PROPERTY FOR ANY PURPOSE WITHOUT OBTAINING WRITTEN PERMISSION. NOTIFYING THE ENGINEER. AND HE/SHE SHALL BE RESPONSIBLE FOR PRESERVATION OF ALL PUBLIC PROPERTY, TREES, MONUMENTS, ETC. ALONG AND ADJACENT TO THE STREET AND/OR RIGHT OF WAY, AND SHALL USE EVERY PRECAUTION NECESSARY TO PREVENT DAMAGE OR INJURY THERETO. HE/SHE SHALL USE SUITABLE PRECAUTIONS TO PREVENT DAMAGE TO PIPES, CONDUITS, AND OTHER UNDERGROUND STRUCTURES AND SHALL PROTECT CAREFULLY FROM DISTURBANCE OR DAMAGE ALL MONUMENTS AND PROPERTY MARKERS UNTIL THE ENGINEER OR AUTHORIZED AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION AND SHALL NOT REMOVE THEM UNTIL DIRECTED.

THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER, LOCAL FIRE, POLICE, HOSPITAL, AND EMERGENCY AGENCIES 72 HOURS IN ADVANCE OF PROPOSED ROAD CLOSURES.

THE CONTRACTOR AND/OR HIS SUBCONTRACTOR SHALL NOTIFY "MISS DIG", LOCAL SEWER, FIRE AND POLICE DEPARTMENTS 72 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

UTILITIES

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

TELEPHONE/FIBER

FRONTIER COMMUNICATIONS MARK STEVENS 1943 W. M-21 OWOSSO, MI 48867 (989) 723-0373 Mark.Stevens@ftr.com

<u>GAS</u>

DAYSTARR COMMUNICATIONS BRENT KLEIN 307 N. BALL STREET OWOSSO, MI 48867 (989) 720-6000

<u>FIBER</u>

Brent.Klein@daystarrfiber.net

CHARTER COMMUNICATIONS MARK KELLY

<u>CABLE TV</u>

1480 S. VALLEY CENTER DRIVE BAY CITY, MI 48706 (989) 233-9404 Mark.Kelly@charter.com

WATER AND SEWER

CITY OF OWOSSO RYAN SUCHANEK 301 WEST MAIN STREET OWOSSO, MI 48867 (989) 725-0555 Rvan.Suchanek@ci.owosso.mi.us

OWOSSO-CALEDONIA TOWNSHIP UTILITY AUTHORITY 135 N. STATE ROAD OWOSSO, MI 48867 (989) 743-3181 townshipsewer@owocalua.com

AND HOLIDAYS.

ELECTRIC

CONSUMERS ENERGY TRACY MAHAR 1801 W. MAIN STREET OWOSSO, MI 48867 (989) 204-9018 pobox3PTY_LVDEZ6@cmsenergy.com

CONSUMERS ENERGY

LANSING, MI 48906

(517) 614-8570

TONY NEWMAN

CORUNNA, MI 48817

drains@shiawassee.net

(989) 743–2398

CITY OF OWOSSO

CLAYTON WEHNER, PE

OWOSSO, MI 48867

CASEY ELLIOT, REHS

CORUNNA, MI 48817

(989) 743-2289

FOR THE PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CONTRACT THE MISS DIG SYSTEM, INC. BY PHONE AT 811 OR 800-482-7171 OR VIA THE WEB AT EITHER ELOCATE.MISSDIG.ORG FOR SINGLE ADDRESS OR

RTE.MISSDIG.ORG, A MINIMUM OF 3 BUSINESS DAYS PRIOR TO EXCAVATION, EXCLUDING WEEKENDS

THE UTILITIES AND THEIR LOCATIONS ARE SHOWN ON THE PLANS ARE DEEMED ACCURATE BUT NOT

THE CONTRACTOR SHALL BE AWARE OF AND USE CAUTION WHEN WORKING NEAR UNDERGROUND

GUARANTEED. THE CONTRACTOR SHALL CALL THE MISS DIG 3 WORKING DAYS BEFORE BEGINNING WORK.

GAS FACILITIES SHALL BE PROTECTED AND SUPPORTED PER THE FACILITIES OWNER STANDARDS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.

OR OVERHEAD LINES OF ALL UTILITIES WITHIN THE PROJECT AREA.

725-0551

301 WEST MAIN STREET

Clayton.Wehner@ci.owosso.mi.us

SOIL EROSION CONTROL

SHIAWASSEE COUNTY HEALTH DEPT.

ENVIRONMENTAL HEALTH DIVISION

201 N. SHIAWASSEE STREET

celliot@shiawasseechd.net

530 W. WILLOW STREET

Adam.Bertram@cmsenergy.com

STORM/COUNTY DRAIN

149 E. CORUNNA AVENUE L-1

SHIAWASSEE COUNTY DRAIN COMMISSION

ADAM BERTRAM

MAINTENANCE OR REMOVAL OF THE EROSION CONTROL ITEMS.

THE CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED IN STORM SEWERS AND DRAINAGE FOR SEDIMENTATION CONTROL SHALL NOT BE PAID FOR SEPARATELY.

4. THE CONTRACTOR SHALL FOLLOW ALL ENTITIES HAVING JURISDICTION FOR SOIL EROSION AND SEDIMENTATION CONTROL FOR ALL MATERIALS DISPOSED OF OFF THE PROPERTY.

ALL AREAS DISTURBED BY THE CONTRACTOR AND/OR HIS OR HER SUBCONTRACTOR BEYOND THE GRADING LIMITS OF THIS PROJECT SHALL BE RESTORED WITH THE USE OF SOD OR HYDROSEED AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS ACTIVITY.

THE CONTRACTOR SHALL BE REIMBURSED BY THE CITY OF OWOSSO FOR THE INITIAL COST OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT.

SAWCUTTING

PAYMENT FOR SAWCUTTING REQUIRED THROUGHOUT THIS PROJECT SHALL BE INCLUDED IN REMOVAL ITEMS AND WILL NOT BE PAID FOR SEPARATELY.

PAVING

ANY RANDOM, IRREGULARLY CRACKED NEW CONCRETE CURB AND GUTTER THAT OCCURS BEFORE THE TOP COURSE OF PAVEMENT IS INSTALLED SHALL BE REMOVED AND REPLACED AT THE SOLE EXPENSE OF THE CONTRACTOR PRIOR TO PLACING THE TOP COURSE.

FINAL ADJUSTMENTS OF ALL STRUCTURES, BOTH NEW AND EXISTING, SHALL BE MADE PRIOR TO PLACING THE TOP COURSE OF ASPHALT.

CONNECTIONS TO EXISTING STORM CONVEYANCE SYSTEMS NOT SHOWN ON THE PLANS MUST BE RECONNECTED WITH MINIMAL INTERRUPTION IN SERVICE. SIZE, TYPE AND LOCATION BY STATION AND OFFSET AND ANY SUSPECT ILLICIT DISCHARGE OBSERVED SHALL BE REPORTED TO THE ENGINEER PRIOR TO RECONNECTING. CONTRACTOR SHALL PROCEED AS DIRECTED BY THE

SIDEWALK AND SIDEWALK RAMP GRADES

MAINTAINING TRAFFIC/TRAFFIC CONTROL

THE CONSTRUCTION INFLUENCE AREA (CIA) SHALL CONSIST OF THE WIDTH OF THE PROPOSED RIGHT-OF-WAY FROM THE PROJECT POINT OF BEGINNING TO THE POINT OF ENDING. CONNECTING SIDE STREETS, AND A SUFFICIENT DISTANCE BEFORE AND AFTER THE PROJECT TO WARN MOTORISTS OF THE CONSTRUCTION AHEAD.

THE CONTRACTOR SHALL MAINTAIN THE PEDESTRIAN ACCESS THROUGHOUT THE ENTIRE PROJECT AT ALL TIMES DURING CONSTRUCTION. AREAS OF SIDEWALK THAT ARE SHOWN TO BE REMOVED AND REPLACED SHALL BE MAINTAINED WITH A TEMPORARY HARD SURFACE. PEDESTRIAN ACCESS TO ALL RESIDENCES AND BUSINESSES SHALL BE ALLOWED AT ALL TIMES DURING CONSTRUCTION.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT LOCAL TRAFFIC AND EMERGENCY VEHICLES SHALL HAVE ACCESS WITHIN THE PROJECT AT ALL TIMES IN A MANNER APPROVED BY THE ENGINEER. ALL EMERGENCY RESPONSE, ROAD COMMISSION, MUNICIPALITIES, SCHOOL BUS GARAGES, OR OTHER NECESSARY AGENCIES SHALL BE NOTIFIED A MINIMUM OF THREE DAYS IN ADVANCE OF IMPLEMENTING ANY TEMPORARY ROAD CLOSURE, THIS SHALL BE INCLUDED IN THE COST OF THE PROJECT.

MAINTENANCE GRAVEL (TON) FOR MAINTAINING LOCAL TRAFFIC HAS BEEN INCLUDED IN THE PROJECT TO BE USED AS DIRÈCTED BY THE ENGINEER TO MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC ALONG THE PROJECT, DRIVEWAYS, AND STREET APPROACHES.

THE CONTRACTOR SHALL SCHEDULE WORK BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M., MONDAY THROUGH SATURDAY. NO WORK IS ALLOWED SUNDAYS OR NATIONAL HOLDIDAYS. NO WORK IS ALLOWED OUTSIDE THESE TIME PERIODS. THE CONTRACTOR SHALL COORDINATE WORK SO THAT ANY NECESSARY PRELIMINARY OR CLOSING OPERATIONS ARE ALSO DONE WITHIN THESE TIME

PAVEMENT REMOVAL QUANTITIES

PAVEMENT REMOVAL AS SHOWN ON THE PLANS WILL BE AT THE DISCRETION OF THE ENGINEER. IF IN HIS/HER JUDGEMENT, AREAS OF PAVEMENT MAY BE LEFT IN PLACE, OR ADDITIONAL AREAS ADDED TO PROVIDE THE PROPER CROSS-SECTION AND BASE, CHANGES WILL BE MADE TO THE QUANTITIES.

SOIL EROSION MEASURES

APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY THE ENGINEER.

ALL SOIL EROSION AND SEDIMENTATION MUST BE CONTROLLED AND CONTAINED ON SITE.

SOIL EROSION AND SEDIMENTATION CONTROL: IN ADDITION TO THE GENERAL SOIL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS IN THE PROPOSAL, THE FOLLOWING MEASURES SHALL BE INCORPORATED INTO THIS PROJECT:

1. THE CONTRACTOR SHALL CONDUCT HIS OR HER OPERATIONS IN SUCH A MANNER AS TO MINIMIZE THE AREAS LEFT BARREN DURING CONSTRUCTION AND TO DISTURB ONLY THOSE AREAS ABSOLUTELY REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.

EROSION CONTROL ITEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE MDOT STANDARD PLANS AND SHALL BE REMOVED WHEN THEY ARE NO LONGER EFFECTIVE AS DETERMINED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE ALLOWED FOR EITHER

STRUCTURES CONSTRUCTED WITH THE PROJECT WHEN SUCH SEDIMENT EXCEEDS 1/2 OF THE SUMP DEPTH. THE ENGINEER WILL INSPECT SUMPS AFTER STORMS AND DIRECT THE CONTRACTOR TO CLEAN OUT TO PROVIDE FOR SEDIMENT COLLECTIONS. CLEANING SUMPS

ILLICIT CONNECTIONS TO STORM WATER SYSTEM

ALL SIDEWALK AND SIDEWALK RAMP GRADES SHALL BE FORMED ACCORDING TO STANDARD PLAN R-28-J* WITH SPECIAL DETAIL AS SHOWN ON THE PLANS. PRIOR TO CONSTRUCTING THE SIDEWALK AND SIDEWALK RAMPS, THE ENGINEER WILL VERIFY THE GRADES ON THE FORMS SET AND AUTHORIZE THE CONSTRUCTION OF THE SIDEWALK AND SIDEWALK RAMPS.

EARTHWORK

ALL EXCAVATION UNDER OR WITHIN 5 FEET OF THE PAVEMENT SECTION SHALL BE BACKFILLED AND COMPACTED WITH GRANULAR MATERIAL, CLASS II WITHIN THE PAVED SECTION AND A 1:1 INFLUENCE OUTSIDE THE PAVED SECTION.

THROUGHOUT THE DURATION OF CONSTRUCTION, NO UNDERCUTS WILL BE LEFT OVERNIGHT NEXT TO THE EDGE OF THE TRAVELED WAY.

EXCAVATION OF TRENCHES OVER 5' DEEP WITHIN 10' OF THE EDGE OF THE TRAVELED PAVEMENT SHALL NOT BE LEFT OPEN OVERNIGHT

MISCELLANEOUS

RUBBISH COLLECTION IS DONE BY PRIVATE CONTRACTORS BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M. ACCORDING TO THE FOLLOWING SCHEDULE: ALL RESIDENTIAL CUSTOMERS NORTH OF MAIN STREET (M-21) ARE SERVICED ON THURSDAYS. ALL RESIDENTIAL CUSTOMERS SOUTH OF MAIN STREET (M-21) ARE SERVICED ON TUESDAYS. RUBBISH COLLECTED AT COMMERCIAL PROPERTIES IS COLLECTED ANY TIME/DATE. THE CONTRACTOR SHALL SCHEDULE WORK TO ALLOW AND PROVIDE ACCESS FOR REFUSE CONTRACTORS TO PROVIDE THEIR SERVICE TO THE RESIDENTIAL AND COMMERCIAL PROPERTIES. IF THE REFUSE CONTRACTORS ARE UNABLE TO COLLECT MATERIALS DUE TO CONSTRUCTION OPERATIONS, THEN THE CONTRACTOR SHALL COORDINATE WITH THE REFUSE CONTRACTORS THE MOVING OF CONTAINERS TO A COLLECTION SITE AND RETURNING SAME CONTAINERS TO THE PROPERTY OWNER.

AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY MAILBOXES OR THEIR SUPPORTS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS ACTIVITY.

ANY SEWER CLEANOUTS AND/OR CURB STOP BOXES LOCATED IN SIDEWALKS, DRIVEWAYS, OR ANY OTHER AREAS DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO MEET PROPOSED ELEVATIONS. PVC PIPE SHALL BE PLACED AROUND CLEANOUT AND STOPS PRIOR TO PLACING NEW CONCRETE OR HMA MATERIAL IF LOCATED WITHIN A DRIVEWAY OR SIDEWALK. ANY CURB STOP BOXES THAT NEED TO BE REPLACED SHALL BE COORDINATED WITH THE ENGINEER AND CITY TO ENSURE CITY APPROVED STOP BOXES ARE USED. PAYMENT FOR ADJUSTING, PVC SLEEVES, AND NEW STOP BOXES SHALL BE INCLUDED IN THE PROJECT PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY.

EXISTING WATER MAINS AND SEWERS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERLY IDENTIFIED EXISTING WATER MAINS AND/OR EXISTING SEWERS DURING THE CONSTRUCTION OF THIS PROJECT.

MAINTENANCE NOTES:

THE CONTRACTOR SHALL SCRAPE AND SWEEP ALL PUBLIC ROADS WITHIN WORK AREA AS

NECESSARY TO MAINTAIN CLEAN PAVEMENT AND PRIOR TO OPENING TO TRAFFIC.

MISCELLANEOUS QUANTITIES — WILTSHIRE ST.

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION

LSUM Mobilization, Max, Wiltshire Erosion Control, Inlet Protection, Fabric Drop

Project Cleanup, Wilshire

P (989) 956-2020 OHM-ADVISORS.COM

MISCELLANEOUS QUANTITIES - DEWEY ST.

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION LSUM Mobilization, Max, Dewey

LSUM Project Cleanup, Dewey

MISCELLANEOUS QUANTITIES - COMSTOCK ST.

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION

LSUM Mobilization, Max, Comstock

2 Ea Erosion Control, Inlet Protection, Fabric Drop

LSUM Project Cleanup, Comstock

MISCELLANEOUS QUANTITIES - CHESTNUT ST.

Erosion Control, Inlet Protection, Fabric Drop

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION

LSUM Mobilization, Max. Chestnut

Proiect Cleanup, Chestnut

OHM ARCHITECTS ENGINEERS PLANNERS 201 E Ellsworth St, Unit 100 Midland, MI 48640

0 $\overline{\mathbb{S}}$ OF OWOS CITY 2023 (NOTE

WATER & SEWER UTILITY SYMBOLS **EXISTING** OST STORM MANHOLE SQUARE CATCH BASIN ROUND CATCH BASIN === CULVERT CULVERT W/O END SECTION CULVERT W/END SECTION SANITARY MANHOLE CLEAN OUT GW GATE VALVE & WELL GATE VALVE & BOX WATER STOP BOX FIRE HYDRANT METER PIT WATER METER SPRINKLER HEAD IRRIGATION VALVE <u>PROPOSED</u> STORM MANHOLE INLET/CATCH BASIN CULVERT END SECTION SANITARY MANHOLE GATE VALVE & WELL GATE VALVE & BOX WATER STOP BOX FIRE HYDRANT REAL ESTATE SYMBOLS CONTIGUOUS PROPERTY SYMBOL PARCEL NUMBER BOX NO ROW IMPACTS

MISCELLANEOUS SYMBOLS **EXISTING** RIPRAP SIGN FLOW DIRECTION STUMP WETLAND CONIFEROUS TREE CL 1 1" TO 5" CL 2 6" TO 17" CL 3 18" TO 35" CL 4 36" AND UP CONIFEROUS SHRUB DECIDUOUS SHRUB SOIL BORING SECTION CORNER MONUMENT IRON ROD/PIPE ◆PK PK NAIL BENCHMARK ▲ TP# TRAVERSE POINT MAIL/NEWSPAPER BOX FLAG POLE POST HAZARDOUS OR USED WITH UNDERGROUND GAS & FLAMMABLE MATERIAL ELECTRICAL LINES USED WITH TELEPHONE & CAUTION - CRITICAL UNDERGROUND UTILITY FIBER OPTIC LINES <u>PROPOSED</u> RIPRAP **十**, **十**, **并**, **拼**, **拼** SIGN **∼►** FLOW DIRECTION MISCELLANEOUS HATCHING <u>PROPOSED</u>

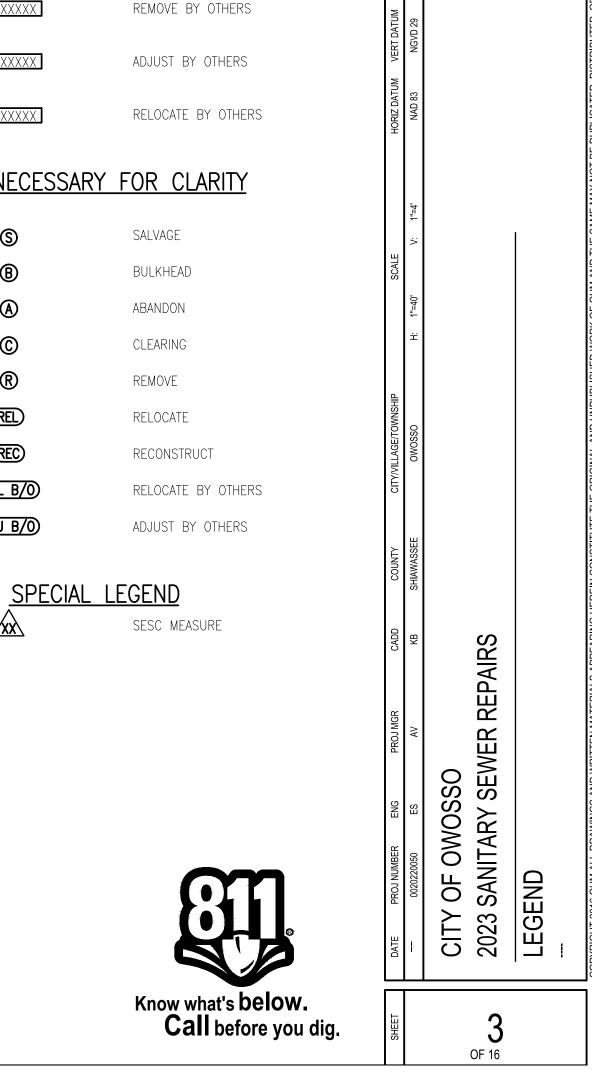
UTILITY PATTERN **EXISTING** _____ . __ELEC . ____ . ___ . ___ . ___ . ___ . ___ ELECTRICAL * 6" (COMPANY) GAS ____ GAS\OIL ______ CABLE/TEL _____ . . ____ . . ____ . . ___ . . ___ CABLE/TELEPHONE * __ __ <u>12" WM _ _ _ _ _ WATER</u> ___ <u>12" STM ___ __ STORM</u> <u>PROPOSED</u> *OH = OVERHEAD , UG = UNDERGROUND **ROW PATTERN EXISTING** <u>PROPOSED</u> TOPO PATTERN **EXISTING** - - CENTERLINE OF DITCH

_____ GRADING LIMIT

CENTERLINE OF DITCH

REMOVAL LEGEND SIDEWALK REMOVAL DRIVEWAY REMOVAL COLD MILLING HMA SURFACE PAVEMENT REMOVAL -XXXXXXXX CURB AND GUTTER, REM TREE, REM SEWER, REM -XXXXXXXXXS-XXXXXX SALVAGE STORM/SANITARY/WATER B-XXXXXX BULKHEAD PRIMARY UTILITY WILL HAVE A CONTINUOUS LINESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS A-XXXXXX ABANDON RESPECTIVE EXISTING UTILITY LINESTYLE REMOVE R-XXXXXX ADJUST ADJ-XXXXXX RELOCATE REL-XXXXXX REC-XXXXXX RECONSTRUCT R B/O-XXXXXX PROPERTY/PARCEL ADJ B/O-XXXXXX REL B/0-XXXXXX IF NECESSARY FOR CLARITY SALVAGE BULKHEAD ABANDON CLEARING REMOVE RELOCATE

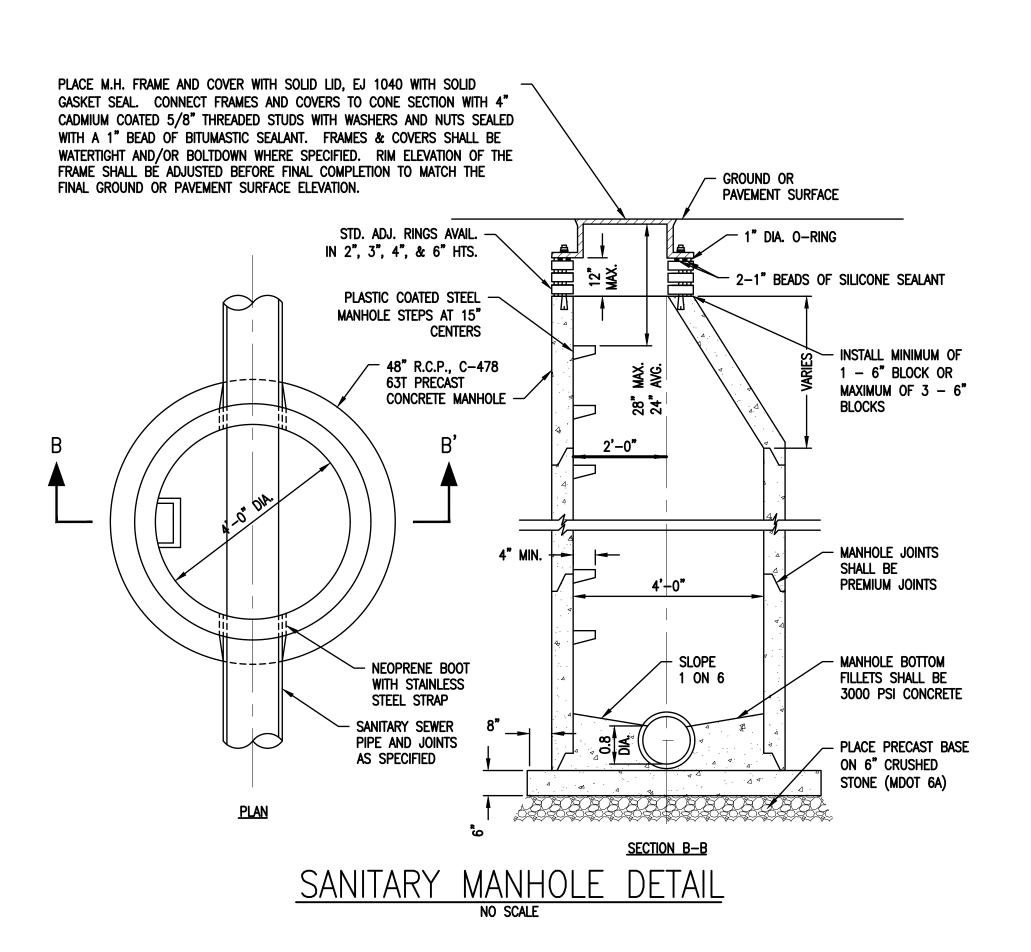
· ----- WETLAND/EDGE OF WATER

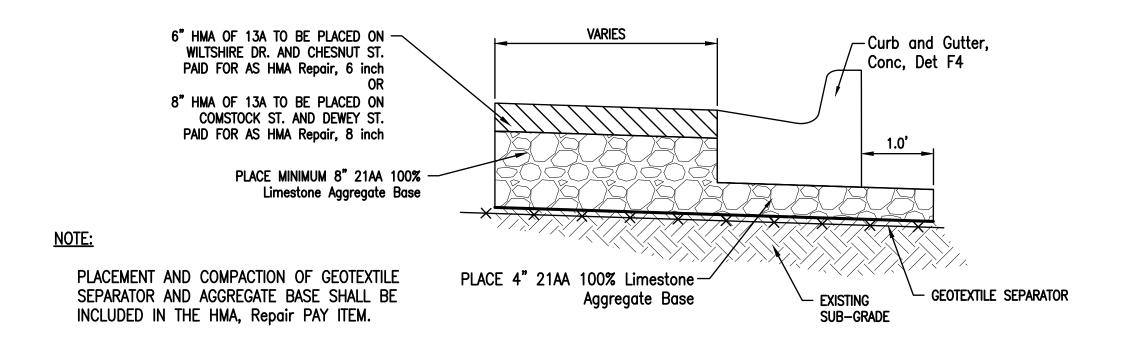


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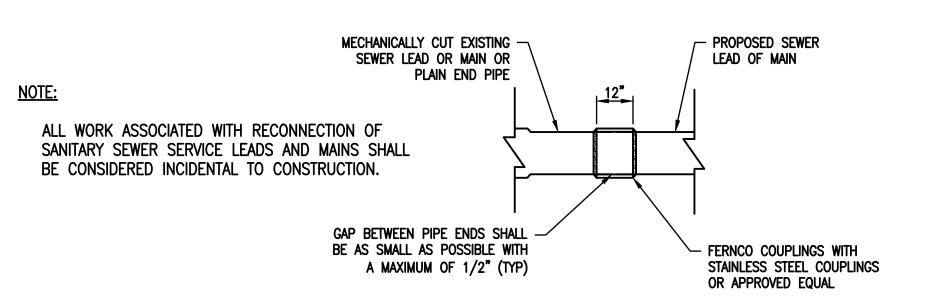
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HOUSE LEAD DETAIL



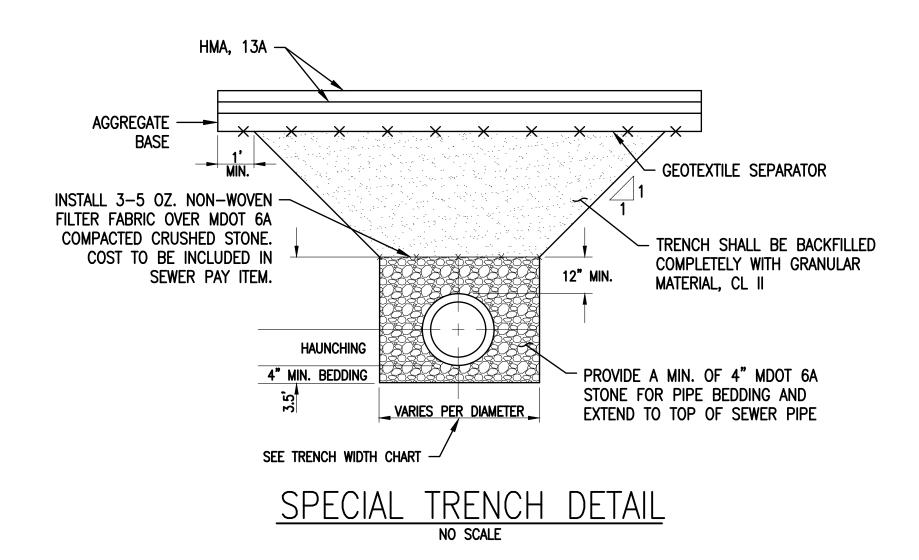


PROPOSED HMA, REPAIR DETAIL



SERVICE LEAD AND SEWER MAIN CONNECTIONS

(TO BE USED FOR PIPES UP TO 18" MAX. DIAMETER)

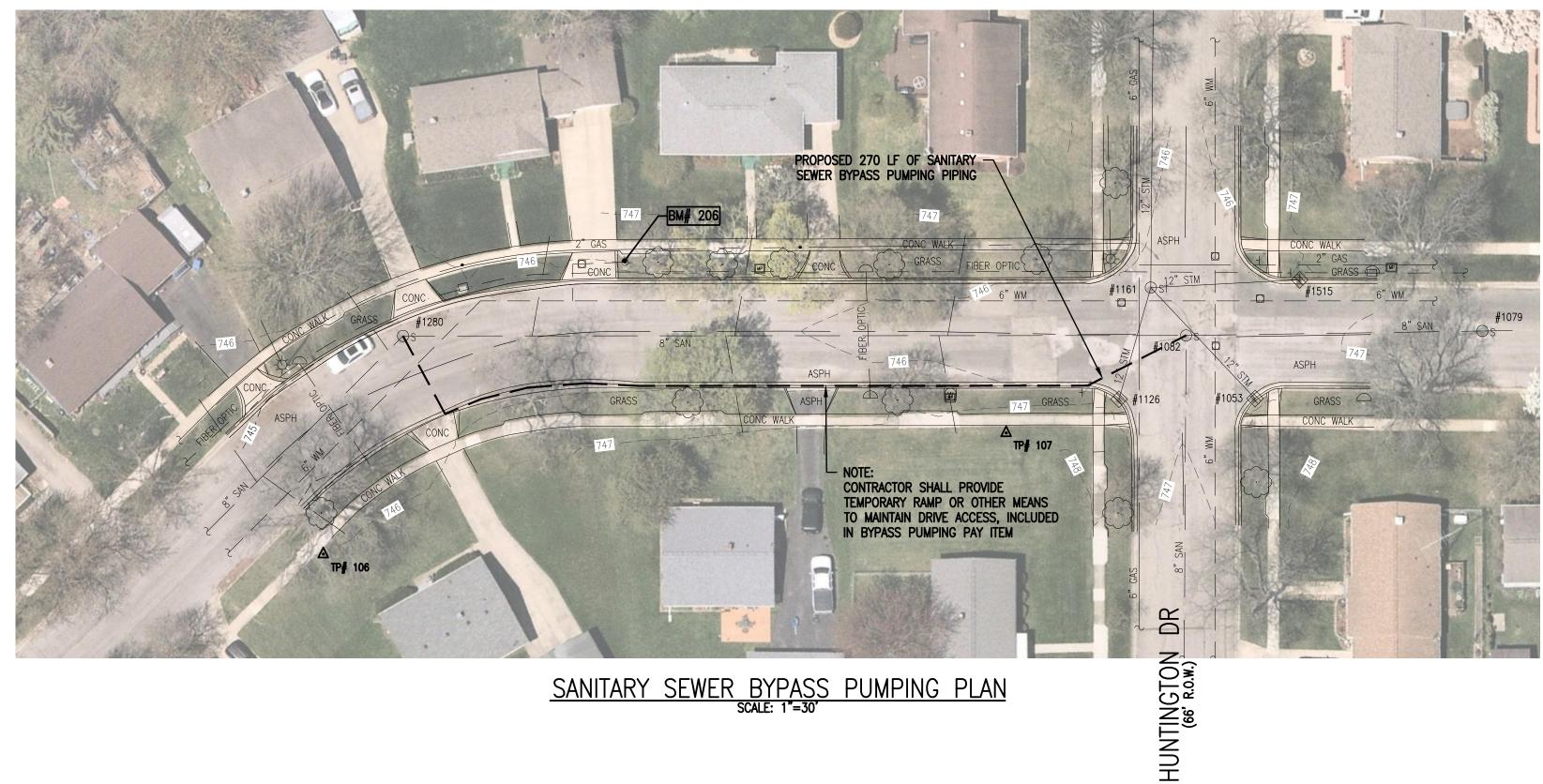


-TRENCE	I WIDTH	CHART-
PIPE SIZE	MINIMUN	MAXIMUM
6", 8" & 10"	24"	30"
12" & 15"	30"	36"
18"	34"	40"
21"	38"	42"
24"	42"	46"
27"	45"	49"
30"	49"	53"
36"	56"	60"
LARGER THAN 36"	I.D. +20"	I.D. +24"



DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SC	SCALE	HORIZ DATUM VERT DATUM	VERT DATUM	REVISI
1	0020220050	ES	AV	KB	SHIAWASSEE	OWOSSO	H: 1"=40'	V: 1"=4'	NAD 83	NGVD 29	
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CIT	CITY OF OWOSSO	OSSC									ı
2000			2003 CANITABY SEWED DEDAIDS	00							
2023		当の 1 と		2							į
DETAILS	ALS:										į
1											

JOB BENCHMARK # 204
SET COTTON SPINDLE IN EAST
FACE OF POWER POLE ON
WEST SIDE OF DEWET ST
ELEV 731.72 WILTSHIRE DR. (66' R.O.W.) JOB BENCHMARK # 206
TOP OF W / NW BOLT OF FIRE HYD
IN SW QUAD OF INTERSECTION OF
WILTSHIRE DR AND HUNTINGTON DR
ELEV 747.19 TRAVERSE POINT # 104 N 545733.832 E 13177878.980 ELEV 731.67 TRAVERSE POINT # 105 SAWCUT AND REMOVE HMA PAVEMENT N 545596.929 E 13177922.930 ELEV 730.40 REMOVE 261 Ft OF 8" SANITARY SEWER, PAID FOR AS Sewer, Rem, Less than 24 inch TRAVERSE POINT # 106 N 548754.235 E 13178527.870 ELEV 745.90 <u>LEGEND</u> TRAVERSE POINT # 107 N 548943.521 E 13178660.530 ELEV 747.66 PAVEMENT REMOVE SEWER REMOVE AND REPAIR REMOVE GRASS \bigcirc CONC WALK BYPASS PUMPING 270.9 QUANTITIES THIS SHEET HUNTINGTON DR (66' R.O.W.) 1 LSUM Sanitary Sewer Bypass Pumping, Wiltshire REMOVAL PLAN
SCALE: 1"=30" WILTSHIRE DR. (66' R.O.W.)



SANITARY SEWER BYPASS PUMPING PLAN SCALE: 1"=30"



OHM ARCHITECTS ENGINEERS PLANNERS 201 E Ellsworth St, Unit 100 Midland, MI 48640 P (989) 956-2020 OHM-ADVISORS.COM

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CITY OF OWOSSO
2023 SANITARY SEWER REPAIRS

REMOVAL AND BYPASS PUMPING PLAN
WILTSHIRE DR.

JOB BENCHMARK # 206 TOP OF W / NW BOLT OF FIRE HYD IN SW QUAD OF INTERSECTION OF WILTSHIRE DR AND HUNTINGTON DR ELEV 747.19 TRAVERSE POINT # 106 N 548754.235 E 13178527.870 ELEV 745.90

TRAVERSE POINT # 107

N 548943.521 E 13178660.530 ELEV 747.66

WILTSHIRE DR. (66' R.O.W.)

PETERS REVOCABLE TRUST

805 HUNTINGTON DR.

0W0SS0, MI 48867 050-191-000-029-00

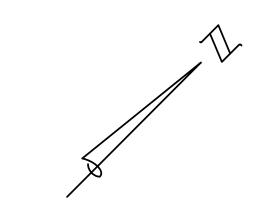
DAVID & LAURA MAYER 804 HUNTINGTON DR. OWOSSO, MI 48867 050-191-000-030-00

DILYN FREEMAN 725 WILTSHIRE DR.

OWOSSO, MI 48867 050-191-000-028-00

VINCENT & DOROTHY SCHERER

721 WILTSHIRE DR.
0W0SSO, MI 48867
050-191-000-027-00



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SANITARY SEWER INVENTORY

#1082 MH SANITARY T/CAST 746.71 8" CLAY INV NE 738.51 8" CLAY INV SE 738.71 8" CLAY INV SW 738.51

#1280 MH SANITARY T/CAST 745.34 8" CLAY INV NE 737.59 8" CLAY INV S 737.59

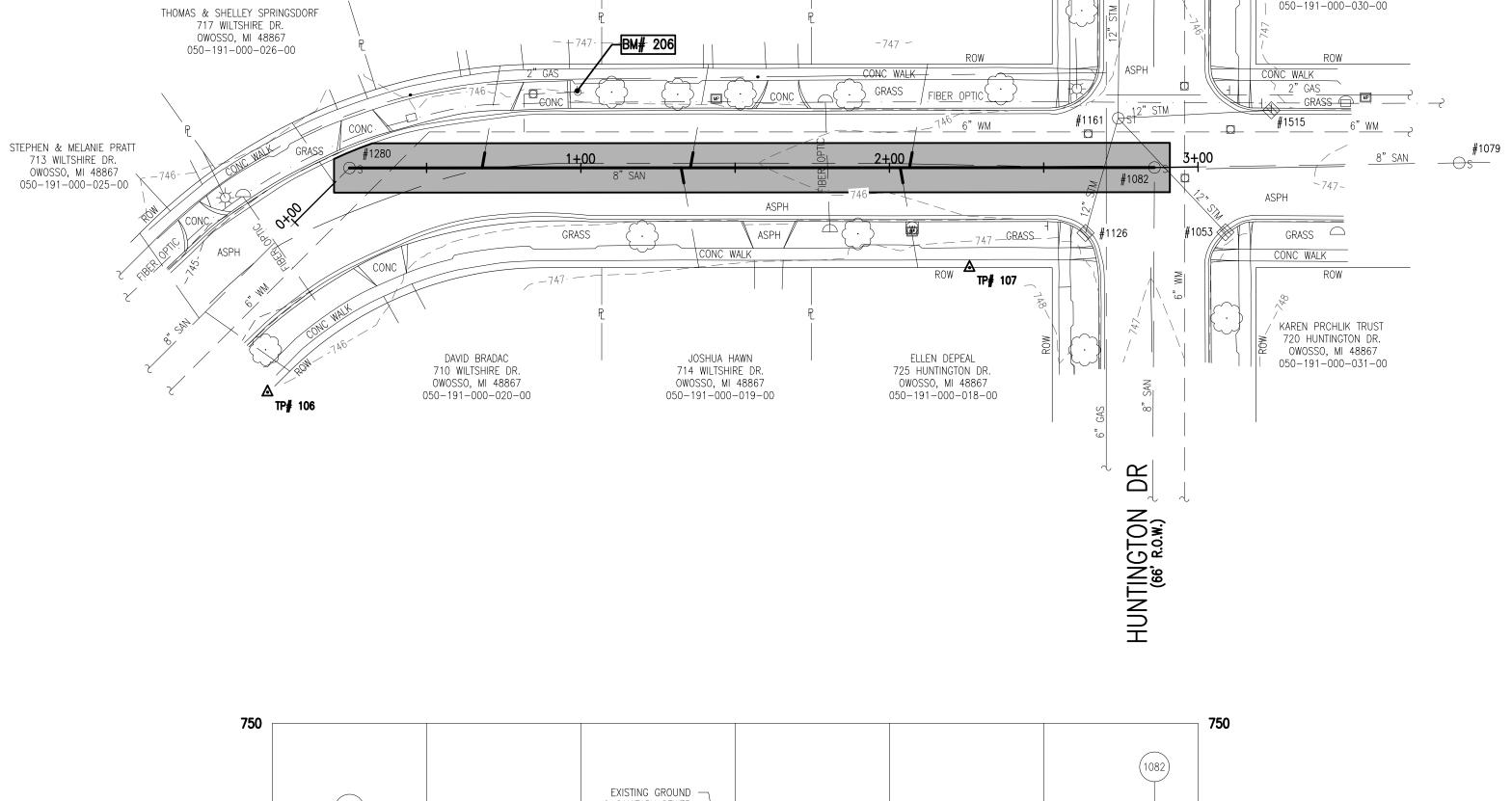
#1161 MH STORM T/CAST 746.44 12" RCP INV NE 742.04 12" RCP INV E 742.14 12" RCP INV SE 742.14 15" RCP INV NW 739.94

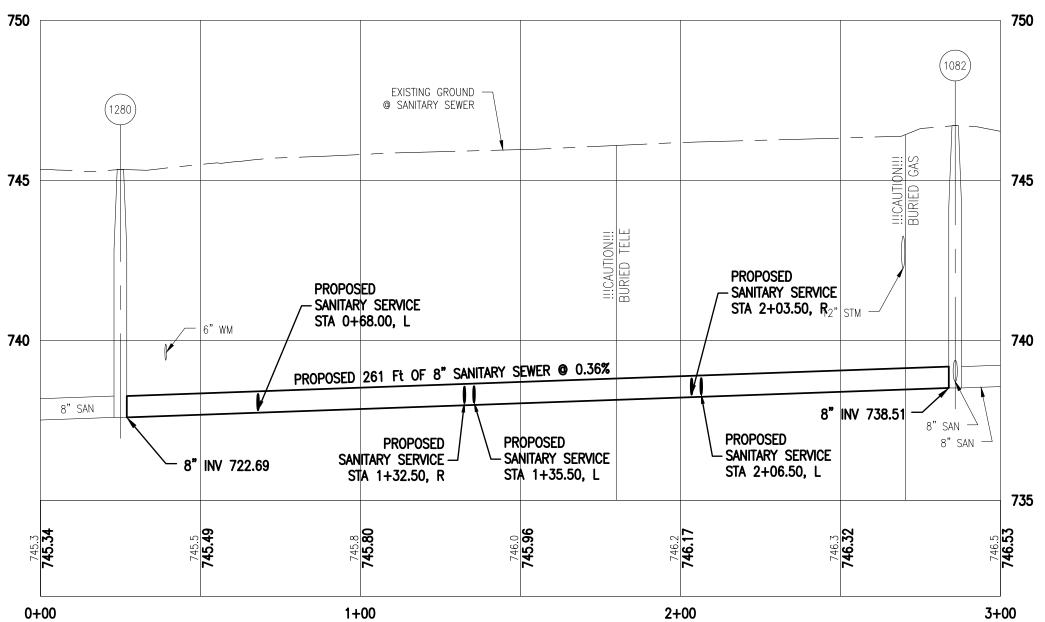
6" PVC INV S 743.04

4" CPP INV S 744.44

STORM SEWER INVENTORY

#1126 CB STORM T/CAST 746.14 12" RCP INV NW 742.34





QUANTITIES THIS SHEET HMA Repair, 6 inch

Sanitary Structure, Tap, 8 inch Sanitary Sewer, PVC, 8 inch, Tr Det B2, Wiltshire 2 Ea

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

now what's below .			Ωn				
	_	DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY
		!	0020220050	ES	AV	8	SHIAWASSEE
		CH	CITY OF OWOSSO	0880			
		2023	3 SANITAI	RY SE	2023 SANITARY SEWER REPAIRS	AIRS	
		SAN	SANITARY S WILTSHIRE DR.	EWEF	SANITARY SEWER PLAN AND PROFILE WILTSHIRE DR.	ND PRO)FILE
	_						

BYPASS/WORK ZONE

TEMPORARY SIGN TYPE III BARRICADE

.

E. NORTH ST. E. NORTH ST. STEVENS DR. JACKSON 7,5 MOORE ST. MOORE ST. 1(2 EA),3 1(2 EA),3 1(2 EA),2 BRANDON ST. 1(2 EA),2 SANITARY SEWER -REPAIR WORK ZONE ABBOTT ST. KRUST DR. 1(2 EA),2 1(2 EA),3 -1(2 EA),2 E. KING ST. E. KING ST. 6,5 7,5 QUEEN ST. E. OLIVER ST. E. OLIVER ST. E. WILLIAMS ST.

> ADVANCE WARNING PLAN NOT TO SCALE

TRAFFIC NOTES:

- 1. DISTANCES SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER TO AVOID CONFLICT OR OBSTRUCTION BY EXISTING TREES, SIGNS, DRIVEWAYS ETC, PRESENT IN THE FIELD BUT NOT SHOWN ON THE PLANS.
- 2. ALL CONSTRUCTION SIGNS SHALL CONFORM WITH THE CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

SIGNING REQUIREMENTS

DESIGNATION

TYPE III

BARRICADE

R11-2

R11-4

SS-2

SS-2

W20-1

W20 - 3

CLOSED

ROAD CLOSED

THRU TRAFFIC

HUNTINGTON DR.

WILTSHIRE DR.

ROA D CLOSED

NUMBER

REQUIRED

16

16 EA

40 SFT

52 SFT

32 SFT

32 SFT

72 SFT

72 SFT

(inch)

LIGHTED

(10 SFT)

(13 SFT)

30 x 18

(4 SFT)

(4 SFT)

(9 SFT)

36 X 36

(9 SFT)

- 3. ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS, BARRICADES, PLASTIC DRUMS AND WARNING LIGHTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. SIGNS, IF REQUIRED WITH THE TYPE III BARRICADES, SHALL BE MOUNTED ABOVE THE BARRICADES ON SEPARATE SUPPORTS. 5. TRAFFIC CONTROL DEVICES ARE TO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF
- THE PROJECT. NIGHT PATROLS OF THE CONSTRUCTION AREA AND DETOUR ROUTE SHALL BE CONDUCTED BY THE CONTRACTOR AND WILL NOT BE PAID SEPARATELY, BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR TEMPORARY TRAFFIC CONTROL ITEMS.
- 6. ALL SIGNS SHALL BE RETRO-REFLECTIVE WITH A MATERIAL THAT HAS A SMOOTH, SEALED OUTER
- 7. ALL SPECIAL SIGNS SHALL BE PLACED ONE (1) WEEK PRIOR TO CONSTRUCTION.

Barricade, Type III, High Intensity, Double Sided, Lighted, Furn

Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

Pedestrian Type II Barricade, Temp

Plastic Drum, Fluorescent, Furn

Plastic Drum, Fluorescent, Oper

Sign, Type B, Temp, Prismatic, Furn Sign, Type B, Temp, Prismatic, Oper

Sign, Type B, Temp, Prismatic, Spec, Furn

64 Sft Sign, Type B, Temp, Prismatic, Spec, Oper

1 LSUM Minor Traf Devices, Wiltshire

1 LSUM Traf Regulator Control, Wiltshire

CITY OF OWOSSO
2023 SANITARY SEWER REPAIRS
MAINTENANCE OF TRAFFIC
WILTSHIRE DR.

JOB BENCHMARK # 204
SET COTTON SPINDLE IN EAST
FACE OF POWER POLE ON
WEST SIDE OF DEWET ST
ELEV 731.72 JOB BENCHMARK # 206
TOP OF W / NW BOLT OF FIRE HYD
IN SW QUAD OF INTERSECTION OF
WILTSHIRE DR AND HUNTINGTON DR
ELEV 747.19

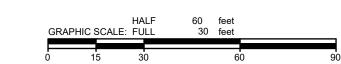
TRAVERSE POINT # 104 N 545733.832 E 13177878.980 ELEV 731.67 TRAVERSE POINT # 105 N 545596.929 E 13177922.930 ELEV 730.40 TRAVERSE POINT # 106 N 548754.235 E 13178527.870 ELEV 745.90 TRAVERSE POINT # 107 N 548943.521 E 13178660.530 ELEV 747.66 S. DEWEY ST. (66' R.O.W.)

SAWCUT AND REMOVE HMA PAVEMENT

REMOVE 20 Ft OF 8" SANITARY SEWER, PAID FOR AS Sewer, Rem, Less than 24 inch



#20147





OHM

ARCHITECTS ENGINEERS PLANNERS

201 E Ellsworth St, Unit 100

Midland, MI 48640

P (989) 956-2020

OHM-ADVISORS.COM



PAVEMENT REMOVE

SEWER REMOVE AND REPAIR

REMOVE

BYPASS PUMPING

QUANTITIES THIS SHEET TOTAL UNIT DESCRIPTION

Sewer, Rem, Less than 24 inch

43 Syd Pavt, Rem, Modified

1 LSUM Sanitary Sewer Bypass Pumping, Dewey

REMOVAL PLAN
SCALE: 1"=30"

W. MAIN ST. (66' R.O.W.)



SANITARY SEWER BYPASS PUMPING PLAN SCALE: 1"=30"

DEWEY ST. (66' R.O.W.)

s



CITY OF OWOSSO

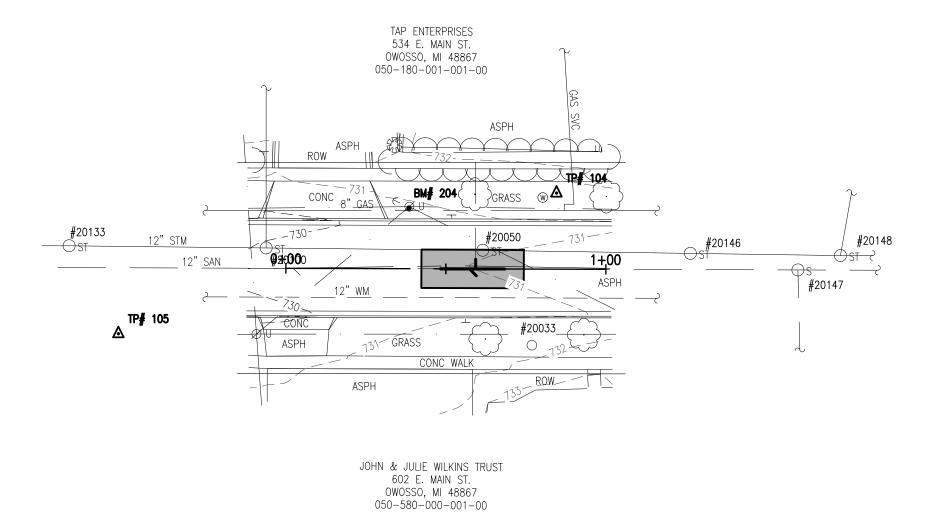
2023 SANITARY SEWER REPAIRS

REMOVAL AND BYPASS PUMPING PLAN
S. DEWEY ST.

1 1 1 1 1 1

JOB BENCHMARK # 204
SET COTTON SPINDLE IN EAST
FACE OF POWER POLE ON
WEST SIDE OF DEWET ST
ELEV 731.72 TRAVERSE POINT # 104 N 545733.832 E 13177878.980 ELEV 731.67 TRAVERSE POINT # 105 N 545596.929 E 131777922.930 ELEV 730.40

S. DEWEY ST. (66' R.O.W.)



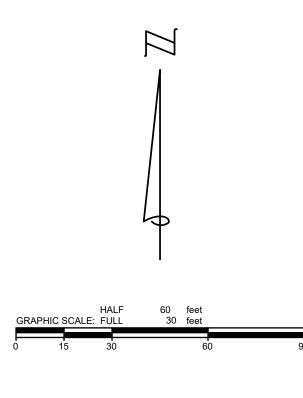
SANITARY SEWER INVENTORY

#20134 MH SANITARY T/CAST 728.45 12" CLAY INV N 723.95 12" PVC INV S 723.95

#20147 MH SANITARY T/CAST 732.18 12" CLAY INV N 724.63 12" CLAY INV S 724.63 12" CLAY INV E 724.63

735 — EXISTING GROUND

@ SANITARY SEWER PROPOSED 20 Ft OF 12" 7 SANITARY SEWER @ 0,37% 725 STA 0+68.35 ELEV 724.43 STA 0+48.35 _ ELEV 724.39 PROPOSED
SANITARY SERVICE
STA 0+59.30, L PROPOSED / SANITARY SERVICE / STA 0+57.40, R 0+00 1+00



ARCHITECTS ENGINEERS PLANNERS 201 E Ellsworth St, Unit 100 Midland, MI 48640 P (989) 956-2020

OHM-ADVISORS.COM

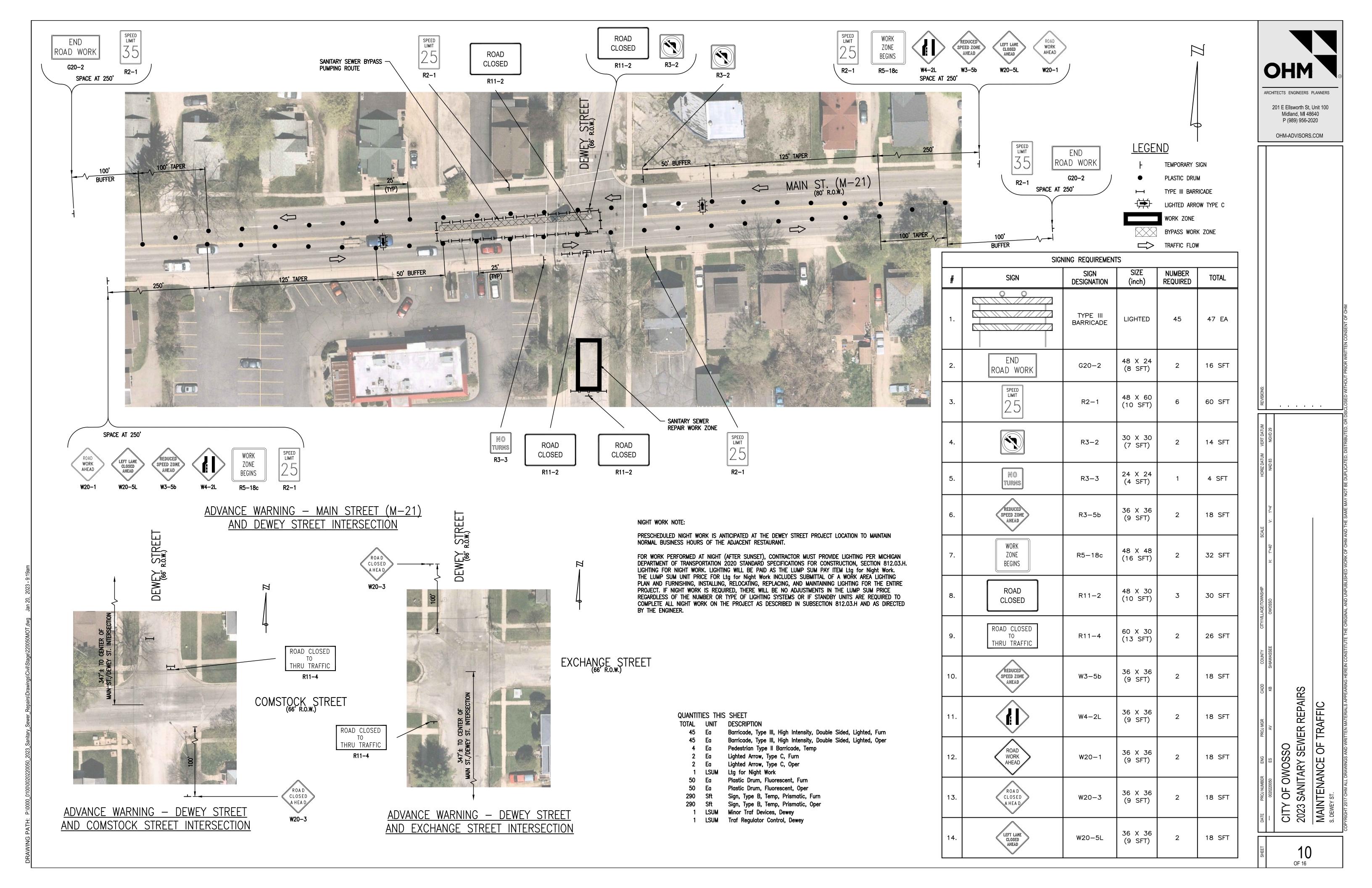
EWER REPAIRS ER PLAN AND PROFILE

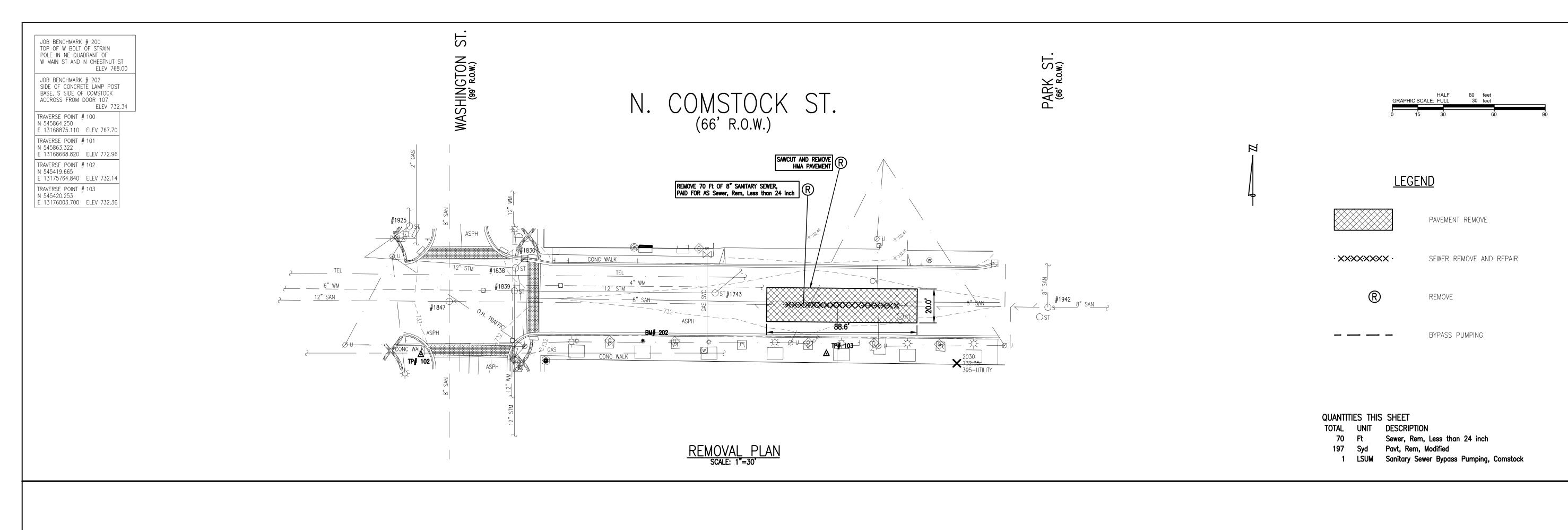
Call before you dig.

QUANTITIES THIS SHEET

Maintenance Gravel
HMA Repair, 8 inch
Sanitary Sewer, PVC, 12 inch, Tr Det B2

	DATE PROJ NUMBER ENG 0020220050 ES	CITY OF OWOSSO 2023 SANITARY SEV	SANITARY SEWER
now what's below.			





N. COMSTOCK ST.

(66' R.O.W.)

PROPOSED 355 FOR SWITHER PIPHE

PROPOSE PLANNER PIPHE

PROPO

ST.

NOTE:
CONTRACTOR SHALL PROVIDE TEMPORARY RAMP
OR OTHER MEANS TO MAINTAIN LOCAL TRAFFIC,
INCLUDED IN BYPASS PUMPING PAY ITEM

SANITARY SEWER BYPASS PUMPING PLAN SCALE: 1"=30"

Know what's below.
Call before you dig.

ARCHITECTS ENGINEERS PLANNERS

201 E Ellsworth St, Unit 100
Midland, MI 48640
P (989) 956-2020

OHM-ADVISORS.COM

V: 1"=4" NAD 83 NGVD 29

COUNTY CITY/VILLAGE/TOWNSHIP SCALE
SHIAWASSEE OWOSSO H: 1"=40' V: 1"=4'

CITY OF OWOSSO

2023 SANITARY SEWER REPAIRS

REMOVAL AND BYPASS PUMPING PLAN
E. COMSTOCK ST.

DATE PROJ NUMBER ENG

-- 0020220050 ES

CITY OF OWOSS

2023 SANITARY SI

JOB BENCHMARK # 202
SIDE OF CONCRETE LAMP POST
BASE, S SIDE OF COMSTOCK
ACCROSS FROM DOOR 107
ELEV 732.34 TRAVERSE POINT # 102 N 545419.665 E 13175764.840 ELEV 732.14 TRAVERSE POINT # 103 N 545420.253 E 13176003.700 ELEV 732.36

THOMAS SIMMINGTON TRUST 120 S. WASHINGTON ST. OWOSSO, MI 48867 050-470-026-001-00

SYDOW PROPERTIES, LLC 200 S. WASHINGTON ST. OWOSSO, MI 48867 050-470-029-001-00

E. COMSTOCK ST. (66' R.O.W.)

NOTE: EXISTING CAPPED UNUSED SANITARY SERVICE SHALL NOT BE REINSTALLED

INDIAN TRAILS, INC. 119 S. WASHINGTON ST. OWOSSO, MI 48867 050-470-027-014-00

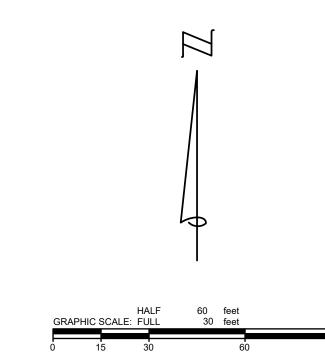
COOL KIDS, LLC 201 S. WASHINGTON ST. OWOSSO, MI 48867

050-470-028-001-00

12" STM #1838

ST

WASHINGTON (99' R.O.W.)





QUANTITIES THIS SHEET

Maintenance Gravel
HMA Repair, 8 inch
Sanitary Sewer, PVC, 8 inch, Tr Det B2, Comstock

735 PROPOSED SANITARY SERVICE -EXISTING GROUND — @ SANITARY SEWER STA 0+85.00, L PROPOSED 70 Ft OF 8"
SANITARY SEWER @ 0.37% 730 PROPOSED — SANITARY SERVICE STA 0+38.80, R PROPOSED
SANITARY SERVICE
STA 0+49.00, R 725 PROPOSED SANITARY SERVICE STA 0+78.39, L STA 0+18.99 STA 0+88.99 STA 0+88.99 STA 0+88.99 0+00

1+00

SHIAWASSEE CENTER 123 E. COMSTOCK ST. 0WOSSO, MI 48867 050-470-027-015-00

COOL KIDS, LLC 201 S. WASHINGTON ST. OWOSSO, MI 48867 050-470-028-001-00

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

OF 16

CITY OF OWOSSO

2023 SANITARY SEWER REPAIRS

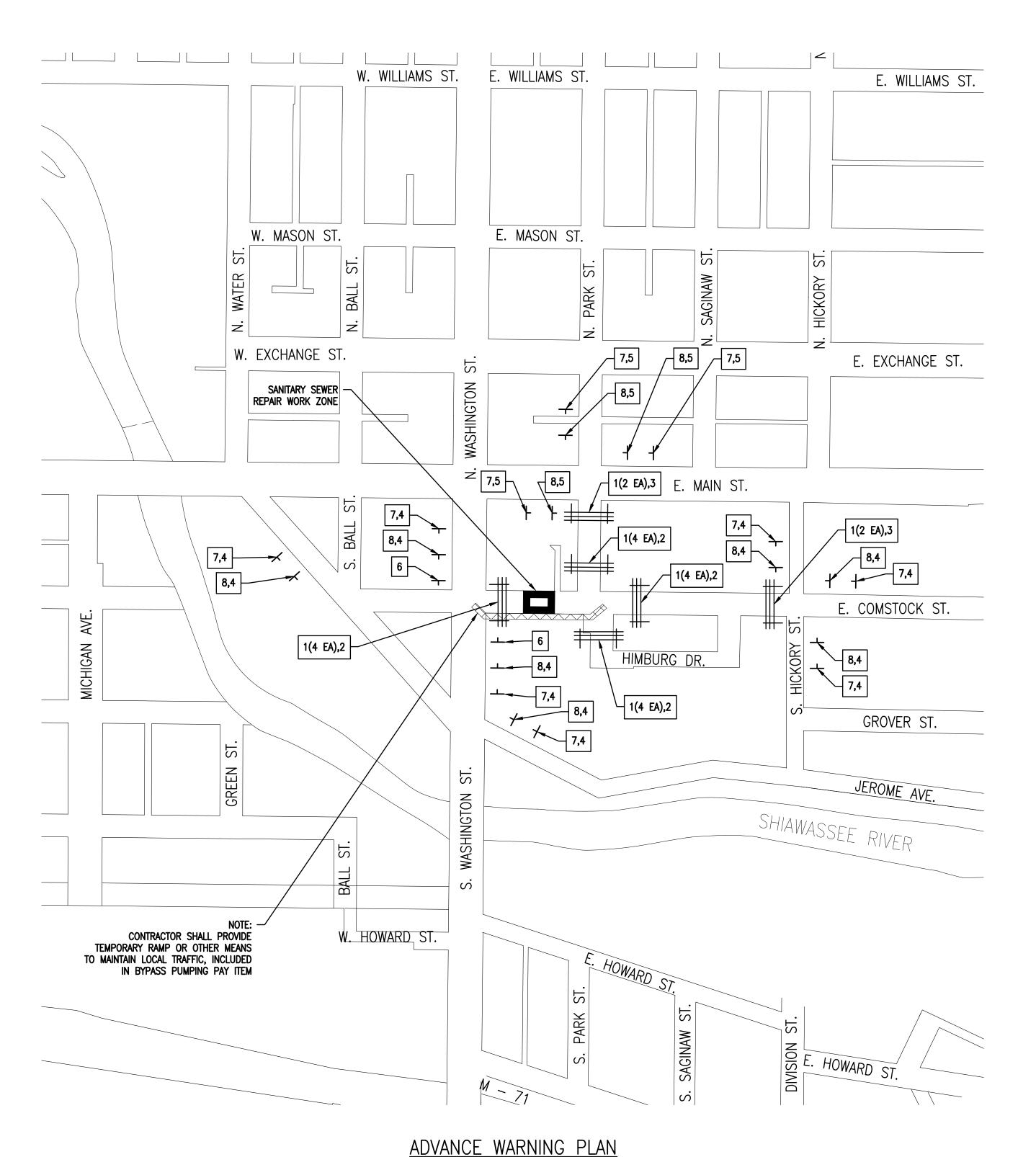
SANITARY SEWER PLAN AND PROFILE
E. COMSTOCK ST.

SANITARY SEWER INVENTORY #1847 MH SANITARY T/CAST 732.49

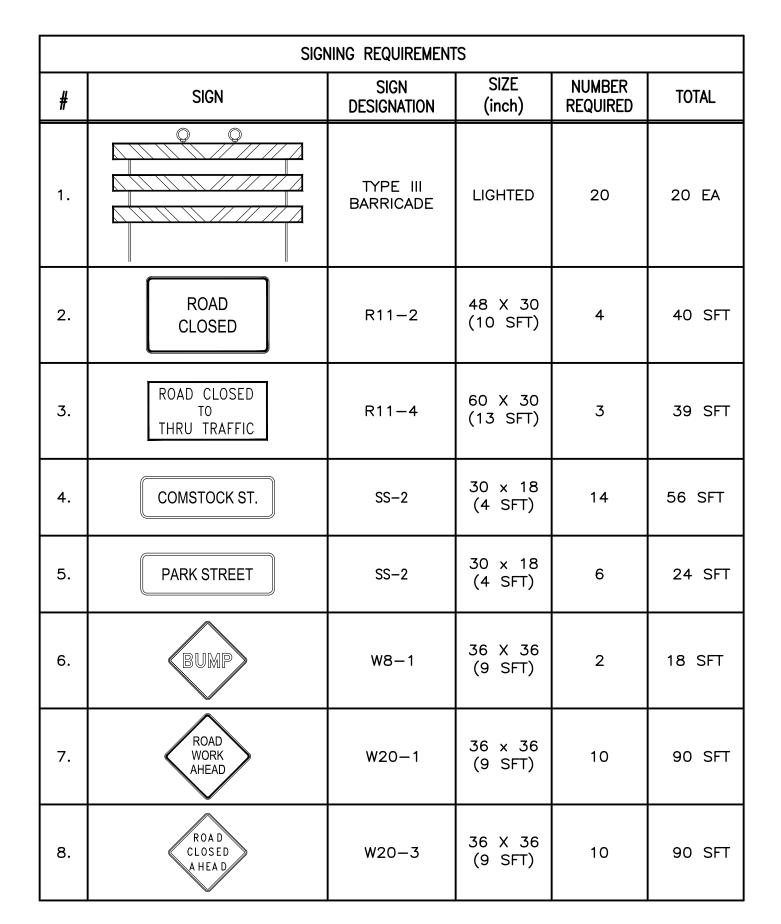
8" CLAY INV N 722.69 8" CLAY INV S 722.69 8" CLAY INV E 722.54 12" CLAY INV W 722.54

#1942 MH SANITARY T/CAST 732.05 8" CLAY INV N 724.70

8" CLAY INV E 724.55 8" CLAY INV W 724.50



NOT TO SCALE



TRAFFIC NOTES:

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- 6. ALL SIGNS SHALL BE RETRO—REFLECTIVE WITH A MATERIAL THAT HAS A SMOOTH, SEALED OUTER SURFACE.
- 7. ALL SPECIAL SIGNS SHALL BE PLACED ONE (1) WEEK PRIOR TO CONSTRUCTION.

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION

Ea Barricade, Type III, High Intensity, Double Sided, Lighted, Furn

20 Ea Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

4 Ea Pedestrian Type II Barricade, Temp

25 Ea Plastic Drum, Fluorescent, Furn

25 Ea Plastic Drum, Fluorescent, Oper

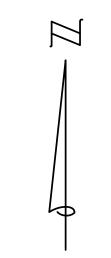
277 Sft Sign, Type B, Temp, Prismatic, Furn

77 Sft Sign, Type B, Temp, Prismatic, Oper

O Sft Sign, Type B, Temp, Prismatic, Spec, Furn Sign, Type B, Temp, Prismatic, Spec, Oper

1 LSUM Minor Traf Devices, Comstock

1 LSUM Traf Regulator Control, Comstock



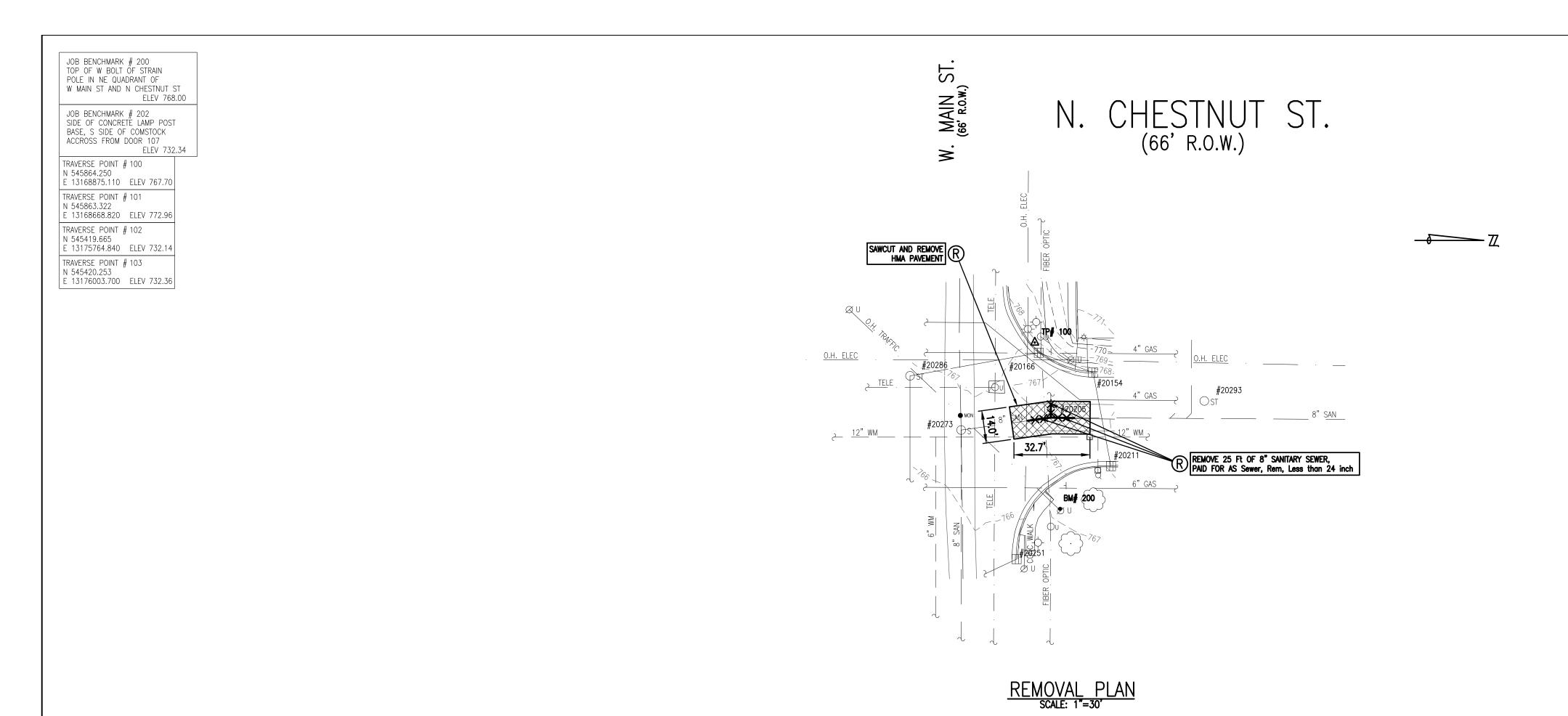


<u>LEGEN</u>	<u>D</u>
	TEMPORARY SIGN
##	TYPE III BARRICADE
	WORK ZONE
	BYPASS WORK ZONE

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	S	SCALE	HORIZ DATUM	VEF
-	0020220050	ES	AV	KB	SHIAWASSEE	OWOSSO	H: 1"=40'	V: 1"=4"	NAD 83	_
CIT	CITY OF OWOSSO	0880/								
202	3 SANITA	RY SE	2023 SANITARY SEWER REPAIR	IRS						
MAI E. COM.	MAINTENAN E. COMSTOCK ST.	ICE OF	MAINTENANCE OF TRAFFIC S. COMSTOCK ST.							

.





<u>LEGEND</u>

PAVEMENT REMOVE

SEWER REMOVE AND REPAIR

REMOVE

BYPASS PUMPING

QUANTITIES THIS SHEET

1 Ea

53 Syd Pavt, Rem, Modified
1 Ea Sanitary Structure, Rem
1 LSUM Sanitary Sewer Bypass Pumping, Chestnut

CLEVELAND AVE. (66' R.O.W.)

ST



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

SANITARY SEWER BYPASS PUMPING PLAN SCALE: 1"=30"

ARCHITECTS ENGINEERS PLANNERS

201 E Ellsworth St, Unit 100

Midland, MI 48640

P (989) 956-2020

OHM-ADVISORS.COM

.

CITY OF OWOSSO
2023 SANITARY SEWER REPAIRS

REMOVAL AND BYPASS PUMPING PLAN
N. CHESTNUT ST.

JOB BENCHMARK # 200 TOP OF W BOLT OF STRAIN POLE IN NE QUADRANT OF W MAIN ST AND N CHESTNUT ST ELEV 768.00 TRAVERSE POINT # 100 N 545864.250 E 13168875.110 ELEV 767.70 TRAVERSE POINT # 101 N 545863.322

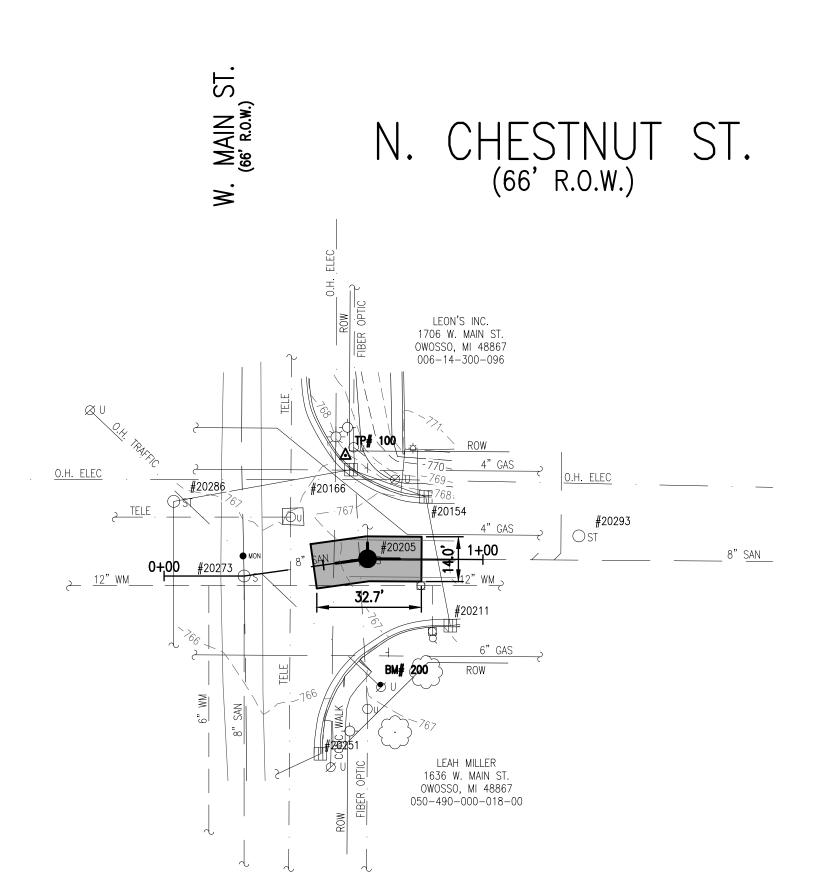
E 13168668.820 ELEV 772.96

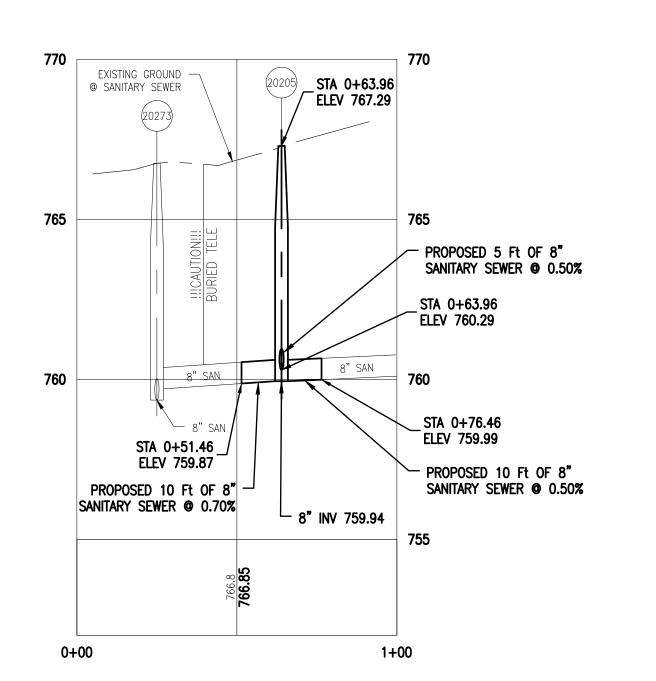
SANITARY SEWER INVENTORY

#20205 MH SANITARY T/CAST 767.29 8" CLAY INV N 759.94 8" CLAY INV S 759.94 8" PVC INV W 760.29

#20273 MH SANITARY T/CAST 766.75 8" CLAY INV N 759.70 8" CLAY INV E 759.35

#20295 MH SANITARY T/CAST 776.22 10" CLAY INV N 766.27 10" CLAY INV N 766.27 8" PVC INV W 757.32







201 E Ellsworth St, Unit 100 Midland, MI 48640 P (989) 956-2020

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.

QUANTITIES THIS SHEET

Maintenance Gravel
HMA Repair, 6 inch
Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk
Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar
Sanitary Structure, 48 inch dia
Sanitary Structure Cover, Type Q
Sanitary Sewer, PVC, 8 inch, Tr Det B2, Chestnut



Know what's below.		
	DATE	CIT 202′, SAN
M	PROJ NUMBER 0020220050	CITY OF OWOSSO 2023 SANITARY SEV SANITARY SEWER N. CHESTNUT ST.
	ENG	/OSSO RY SE/ SEWER
	PROJ MGR AV	CITY OF OWOSSO 2023 SANITARY SEWER REPAIRS SANITARY SEWER PLAN AND PROFILE N. CHESTNUT ST.
	CADD	AIRS ND PRC
C, 8 inch, Ir Det B2, Chestnut	COUNTY)FILE



1.		TYPE III BARRICADE	LIGHTED	20	20 EA
2.		R3-1	30 X 30 (7 SFT)	1	7 SFT
3.		R3-2	30 X 30 (7 SFT)	1	7 SFT
4.	ROAD CLOSED	R11-2	48 X 30 (10 SFT)	2	20 SF1
5.	ROAD CLOSED TO THRU TRAFFIC	R11-4	60 X 30 (13 SFT)	1	13 SFT
6.	CHESTNUT ST.	SS-2	30 x 18 (4 SFT)	14	56 SFT
7.	CLEVELAND AVE.	SS-2	30 x 18 (4 SFT)	5	20 SF1
8.	BUMP	W8-1	36 X 36 (9 SFT)	2	18 SFT
9.	ROAD WORK AHEAD	W20-1	36 × 36 (9 SFT)	11	99 SF1
10.	ROAD CLOSED A HEA D	W20-3	36 X 36 (9 SFT)	6	54 SFT

SIGNING REQUIREMENTS

DESIGNATION

NUMBER

REQUIRED

(inch)

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QUANTITIES THIS SHEET

Barricade, Type III, High Intensity, Double Sided, Lighted, Furn Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

Pedestrian Type II Barricade, Temp

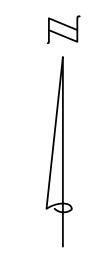
Plastic Drum, Fluorescent, Furn

Plastic Drum, Fluorescent, Oper

Sign, Type B, Temp, Prismatic, Furn

Sign, Type B, Temp, Prismatic, Oper

76 Sft Sign, Type B, Temp, Prismatic, Oper
76 Sft Sign, Type B, Temp, Prismatic, Spec, Furn
76 Sft Sign, Type B, Temp, Prismatic, Spec, Oper
1 LSUM Minor Traf Devices, Chestnut
1 LSUM Traf Regulator Control, Chestnut





LEGEND

TEMPORARY SIGN

PLASTIC DRUM TYPE III BARRICADE

> WORK ZONE BYPASS WORK ZONE

> >

CITY OF OWOSSO 2023 SANITARY SEWER REPAIRS

