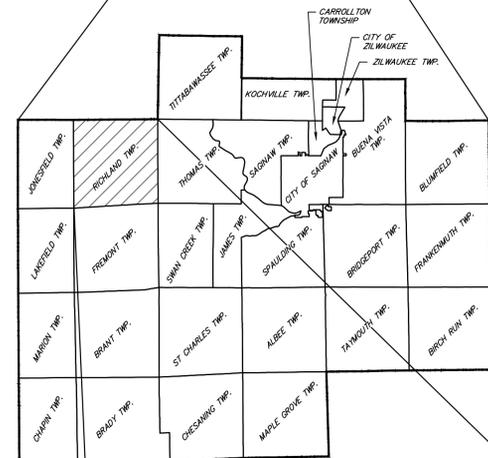


# BLANK TILE DRAIN SAGINAW COUNTY, MICHIGAN

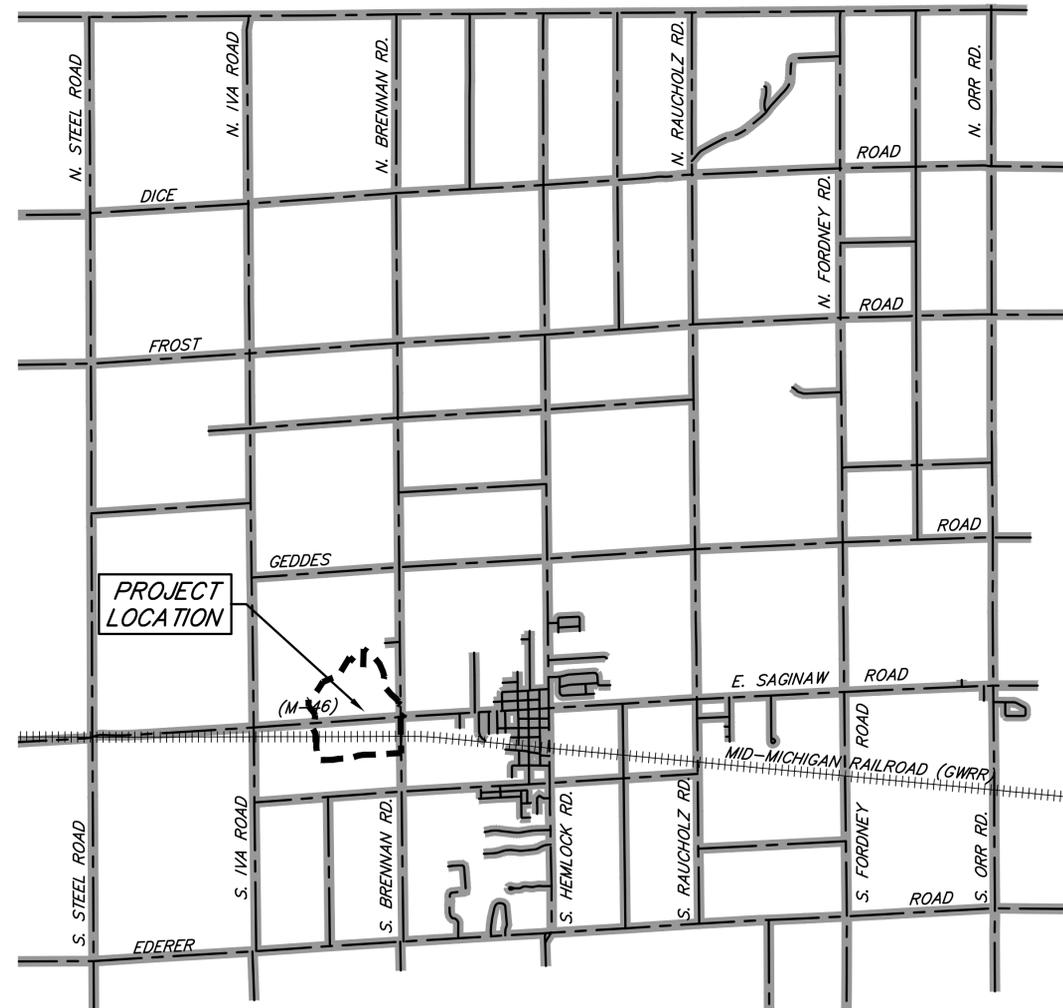
SAGINAW COUNTY PUBLIC WORKS COMMISSIONER – BRIAN J. WENDLING



AREA MAP  
NOT TO SCALE



6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36



LOCATION MAP  
NOT TO SCALE

SECTION 21, & 27-28,  
T.12N.-R.2E., RICHLAND TOWNSHIP,  
SAGINAW COUNTY, MICHIGAN

PLAN INDEX		
FILE NO.	DESCRIPTION	NO.
DR-2958-01	COVER SHEET	1
DR-2958-02	GENERAL NOTES	2
DR-2958-03	DISTRICT MAP	3
DR-2958-04	PLAN AND PROFILE - STA. 0+00 TO STA. 14+00	4
DR-2958-05	MISCELLANEOUS DETAILS	5

### CONTACTS

<b>BRIAN J. WENDLING</b> SAGINAW COUNTY PUBLIC WORKS COMMISSIONER 111 SOUTH MICHIGAN SAGINAW, MI 48602 (989) 790-5258	<b>OWNER</b>	<b>DAN BIELACZYC</b> CHARTER COMMUNICATIONS 1392 TRADE CENTER DR. TRAVERSE CITY, MI 49696 (231) 941-3819	<b>CABLE</b>
<b>NICHOLAS CZERWINSKI, P.E.</b> SPICER GROUP, INC. 230 S. WASHINGTON AVENUE SAGINAW, MI 48605 (989) 754-4717	<b>ENGINEER</b>	<b>KATHRYN ANDERSON</b> VERIZON/FRONTIER 311 S. CEDAR IMLAY CITY, MI 48444 (810) 724-3127	<b>TELEPHONE</b>
<b>DON HUNDLEY</b> MICHIGAN DEPT. OF TRANS. 2590 E. WILDER ROAD BAY CITY, MI 48706 (989) 671-1555 EXT. 316	<b>MDOT</b>	<b>LEROY KOGLIN</b> AIR ADVANTAGE 465 FRANKLIN ST. FRANKENMUTH, MI 48734 (989) 652-9500	<b>INTERNET</b>
<b>DONNA KILLINGSWORTH</b> GENESEE & WYOMING RAILROAD 13901 SUTTON PARK DRIVE S, SUITE 160 JACKSONVILLE, FL 32224 PHONE: (904) 900-6286	<b>RAILROAD</b>	<b>JOEL SCHROEDER</b> WINDSTREAM COMMUNICATIONS 929 MARTHA'S WAY HIAWATHA, IA 52233 (319) 790-1514	<b>TELECOMMUNICATIONS</b>
<b>GREG SOLANDA</b> CONSUMERS ENERGY 2400 WEISS STREET SAGINAW, MI 48602 (989) 791-5353	<b>ELECTRIC</b>		
<b>MARCIA JANSON-WILSON</b> CONSUMERS ENERGY 2400 WEISS STREET SAGINAW, MI 48602 (989) 791-5869	<b>GAS</b>		

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>BLANK TILE DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>COVER SHEET</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: LDO	CH. BY: NDC	PROJECT NO.	
DR. BY: POC	APP. BY: RBH	122848SG2015	
STDS.	SHEET 1 OF 5	DR	
DATE: SEPTEMBER 2016	FILE NO.	1	
SCALE: NOT TO SCALE	DR-2958-01		

**GENERAL NOTES**

ALL WORK WITHIN THE ROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND GENERAL SPECIFICATIONS OF SAGINAW COUNTY ROAD COMMISSION.

RESTORE ALL LAWN AREAS WITH 4" OF TOPSOIL AND SEED AND MULCH.

CONTRACTOR SHALL NOTIFY ENGINEER 72 HOURS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION.

ALL CORRUGATED METAL PIPE SHALL BE TYPE II ALUMINIZED UNLESS OTHERWISE NOTED.

CONTRACTOR TO RESTORE INCIDENTAL DAMAGES ON THE PROJECT AS DIRECTED BY OWNER AND ENGINEER.

ALL DRAIN SIDE SLOPES SHALL BE 2H:1V OR FLATTER, UNLESS SPECIFIED OTHERWISE.

NO WORK SHALL BE PERFORMED BEFORE 7:00 AM OR AFTER 7:00 PM MONDAY THROUGH SATURDAY. NO WORK SHALL HAPPEN ON SUNDAYS OR HOLIDAYS.

CLEAR AND GRUB TREES AS INDICATED FOR CONSTRUCTION WITHIN DRAIN RIGHT-OF-WAY. REMOVE ALL TREES, STUMPS AND DEBRIS FROM SITE.

CONTACT THE ENGINEER 48 HOURS PRIOR FOR CONSTRUCTION STAKING AND INSPECTION.

REMOVE EXISTING FENCES, LANDSCAPING, AND OTHER STRUCTURES IN DRAIN RIGHT-OF-WAY AS NEEDED FOR CONSTRUCTION. REINSTALLATION OF FENCES MUST BE COORDINATED WITH THE LAND OWNER AT THE LAND OWNER'S EXPENSE, UNLESS STATED OTHERWISE IN THE PLANS. COST TO BE INCLUDED IN SITE CLEARING.

CONTRACTOR SHALL COORDINATE LOCATION OF ANY ACCESS ROADS WITH THE LANDOWNER AND THE ENGINEER. ANY ACCESS ROAD SHALL BE REPAIRED TO THE LANDOWNERS AND THE PUBLIC WORKS COMMISSIONER'S APPROVAL.

CONTRACTOR SHALL CALL MISS DIG (1-800-482-7171) A MINIMUM OF 3 WORKING DAYS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES. SIGNAGE MUST BE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF TRAFFIC CONTROL AND SHALL BE COORDINATED WITH THE ENGINEER AND SAGINAW COUNTY ROAD COMMISSION. PERMITS FROM THE ROAD COMMISSION AND/OR MDT MAY BE REQUIRED.

ALL DRIVING SURFACES ARE TO BE RESTORED TO IN KIND DEPTH AND MATERIAL UNLESS OTHERWISE SPECIFIED ON THE PLANS. COST TO BE INCLUDED IN THE BID PRICE FOR WORK PERTAINING TO EACH CROSSING.

BROKEN CONCRETE AND DEBRIS SHALL BE CONSIDERED WASTE AND SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE. COST TO BE INCLUDED IN SITE CLEARING.

CONTRACTOR SHALL REMOVE ALL STREET AND TRAFFIC SIGNAGE AS NECESSARY FOR CONSTRUCTION. ALL COSTS TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR SITE CLEARING.

ALL TEMPORARILY RELOCATED MAIL BOXES, STREET AND TRAFFIC SIGNS TO BE REINSTALLED TO ORIGINAL LOCATIONS AS CONSTRUCTION ALLOWS. COSTS TO BE INCLUDED IN THE UNIT PRICE BID FOR CLEANUP AND RESTORATION.

ALL CONSTRUCTION UNDER EXISTING UTILITIES SHALL BE COMPLETELY BACKFILLED WITH SAND WITH COST TO BE INCLUDED IN THE UNIT PRICE FOR UTILITY BEING INSTALLED.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES AND NOTIFY THE ENGINEER WHERE POSSIBLE CONFLICT EXISTS PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENTATION CONTROL ACT, PART 91 OF ACT 451 OF 1994.

ELECTRIC, GAS AND TELEPHONE UTILITIES LOCATED IN THE ROAD AND DRAIN RIGHT-OF-WAYS WILL BE RELOCATED BY OTHERS.

ALL DEWATERING REQUIRED FOR CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR UTILITY BEING INSTALLED.

CONTRACTOR SHALL FIELD LOCATE ALL LATERAL TILE CONNECTIONS AND CONNECT TO NEAREST DRAINAGE STRUCTURE. COSTS TO BE INCLUDED IN THE UNIT PRICE BID FOR LATERAL TILE CONNECTION.

ALL CATCH BASINS SHALL BE CLEANED OUT UPON COMPLETION OF THE PROJECT. COSTS FOR CLEANING THE CATCH BASINS SHALL BE INCLUDED IN THE PAY ITEM FOR CLEANUP AND RESTORATION.

ALL PROPOSED R.C.P. STORM SEWER PIPE JOINTS SHALL HAVE PREMIUM JOINTS. ALL STORM SEWER PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC A MINIMUM OF 2' WIDE. COST TO BE INCLUDED IN THE UNIT BID PRICE PER LIN. FT. OF STORM SEWER.

ALL PROPOSED DRAINAGE STRUCTURE RIM ELEVATIONS ARE APPROXIMATE AND SHALL BE FIELD ADJUSTED BY THE CONTRACTOR AND THE PROJECT INSPECTOR.

THE CONTRACTOR SHALL PROVIDE DROP INLET PROTECTION (SILT SAC OR EQUAL) FOR ALL PROPOSED DRAINAGE INLET STRUCTURES. FILTER FABRIC PLACED UNDER THE PROPOSED STRUCTURE GRATE WILL NOT BE ACCEPTED.

PROVIDE POSITIVE DRAINAGE TO ALL CATCH BASINS. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR CATCH BASINS.

CONTRACTOR TO PROVIDE DUST CONTROL AND SWEEP ROADS DAILY. COST TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR CLEAN UP AND RESTORATION.

THE WORDS "RIGHT SIDE" OR "LEFT SIDE" IMPLY A REFERENCE TO STORM SEWER FACING UPSTREAM.

**SYMBOL LEGEND**

- - MANHOLE
- ⊙ - PROPOSED MANHOLE
- ⊗ - CATCHBASIN
- ⊠ - CURB CATCHBASIN
- ⊡ - PROPOSED CATCHBASIN
- ⊕ - FIRE HYDRANT
- ⊖ - GAS VALVE
- ⊗ - WATER VALVE
- ⊙ - PROPOSED WATER VALVE
- ⊠ - TELEPHONE PEDESTAL
- ⊡ - POWER POLE
- ⊕ - TELEPHONE POLE
- ⊖ - POWER AND TELEPHONE POLE
- ⊙ - LIGHT POLE
- ⊠ - GUY ANCHOR AND POLE
- ⊡ - MAIL BOX
- ⊕ - SIGN
- ⊖ - CABLE TV PEDESTAL
- ⊠ - TRANSFORMER
- ⊙ - ELECTRICAL PEDESTAL
- ⊡ - BARRIER FREE PARKING
- ⊕ - FENCE
- ⊖ - SPRINKLER
- ⊙ - RAILROAD SIGNAL
- ⊠ - ANTENNA
- ⊡ - SATELLITE DISH
- ⊕ - AIR CONDITIONING UNIT
- ⊖ - SOIL BORING
- ⊙ - FOUND SURVEY CORNER
- ⊠ - SET 3/4" IRON PIPE
- ⊡ - BREAK IN LINE
- ⊕ - STUMP
- ⊖ - WETLANDS
- ⊙ - PINE
- ⊠ - BUSH
- ⊡ - TREE
- ⊕ - ACREAGE OF PARCEL WITHIN DISTRICT

**LINE TYPE LEGEND**

- EXISTING PROJECT DRAIN
- EXISTING DRAINS (OTHER)
- EXISTING DRAINAGE DISTRICT LINE
- PROPOSED DRAINAGE DISTRICT LINE
- PROPOSED SUB-DRAINAGE DISTRICT LINE
- EXISTING ROAD
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING TELEPHONE CABLE
- EXISTING GAS MAIN
- EXISTING ELECTRIC
- PROPOSED UTILITY
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER

**ABBREVIATIONS**

- BIT = BITUMINOUS
- BM = BENCH MARK
- CB = CATCH BASIN
- CF = CUBIC FEET
- CL = CENTERLINE
- CMP = CORRUGATED METAL PIPE
- CSP = CORRUGATED STEEL PIPE
- CONC = CONCRETE
- DIP = DUCTILE IRON PIPE
- ELEC = ELECTRIC
- ELEV = ELEVATION
- ESM'T = EASEMENT
- EX OR EXIST = EXISTING
- FF = FINISH FLOOR
- FS = FINISH SURFACE
- FG = FINISH GRADE
- G = GUTTER
- HYD = HYDRANT
- INV = INVERT
- MH = MANHOLE
- MIN = MINIMUM
- NFL = NOT FIELD LOCATED
- NTS = NOT TO SCALE
- PROP = PROPOSED
- PVC = POLYVINYL CHLORIDE
- RCP = REINFORCED CONCRETE PIPE
- ROW = RIGHT OF WAY
- SAN = SANITARY
- SB = SOIL BORING
- STA = STATION
- STM = STORM
- SWR = SEWER
- TC = TOP OF CURB
- TELE = TELEPHONE
- TRW = TOP OF RETAINING WALL
- TW = TOP OF WALK
- WM = WATER MAIN

**MICHIGAN ASSOCIATION OF COUNTY DRAIN COMMISSIONERS SOIL EROSION AND SEDIMENTATION CONTROL KEYING SYSTEM**

KEY	SESC MEASURE	SYMBOL	WHERE USED
1	SEEDING		When bare soil is exposed, temporarily or permanently, to erosive forces from wind and/or water on flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles.
2	MULCH		On flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles when areas are subject to raindrop impact, and erosive forces from wind or water.
7	RIPRAP		Along drain banks, shorelines, or where concentrated flows occur. Slows velocity, reduces erosion and sediment load.
26	DUST CONTROL		As a temporary measure on exposed and unstabilized areas that must be protected from wind or water erosion.
41	CATCH BASIN		Where surface water accumulates and needs an outlet or an open drain discharges to a stream or drain at erosive velocities. Within an enclosed drain system to provide an inlet and a sump.
60	STORM DRAIN INLET PROTECTION		Around the entrance to a newly constructed catch basin or an inlet that will capture runoff from an earth change activity.
87	Enclosed Drain Maintenance		

DETAILED DRAWINGS AND SPECIFICATIONS ARE LOCATED IN THE MICHIGAN ASSOCIATION OF COUNTY DRAIN COMMISSIONERS SOIL EROSION AND SEDIMENTATION CONTROL AUTHORIZED PUBLIC AGENCY PROCEDURES MANUAL

SYMBOLGY FOR INSERTION INTO CONSTRUCTION DRAWINGS:

- ⊕ = PERMANENT MEASURE
- ⊖ = TEMPORARY MEASURE

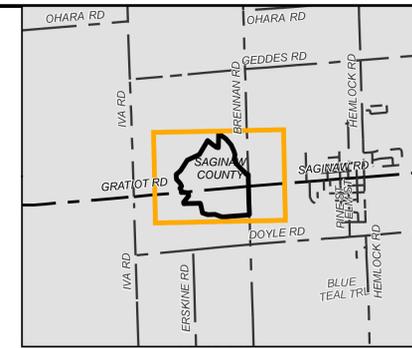
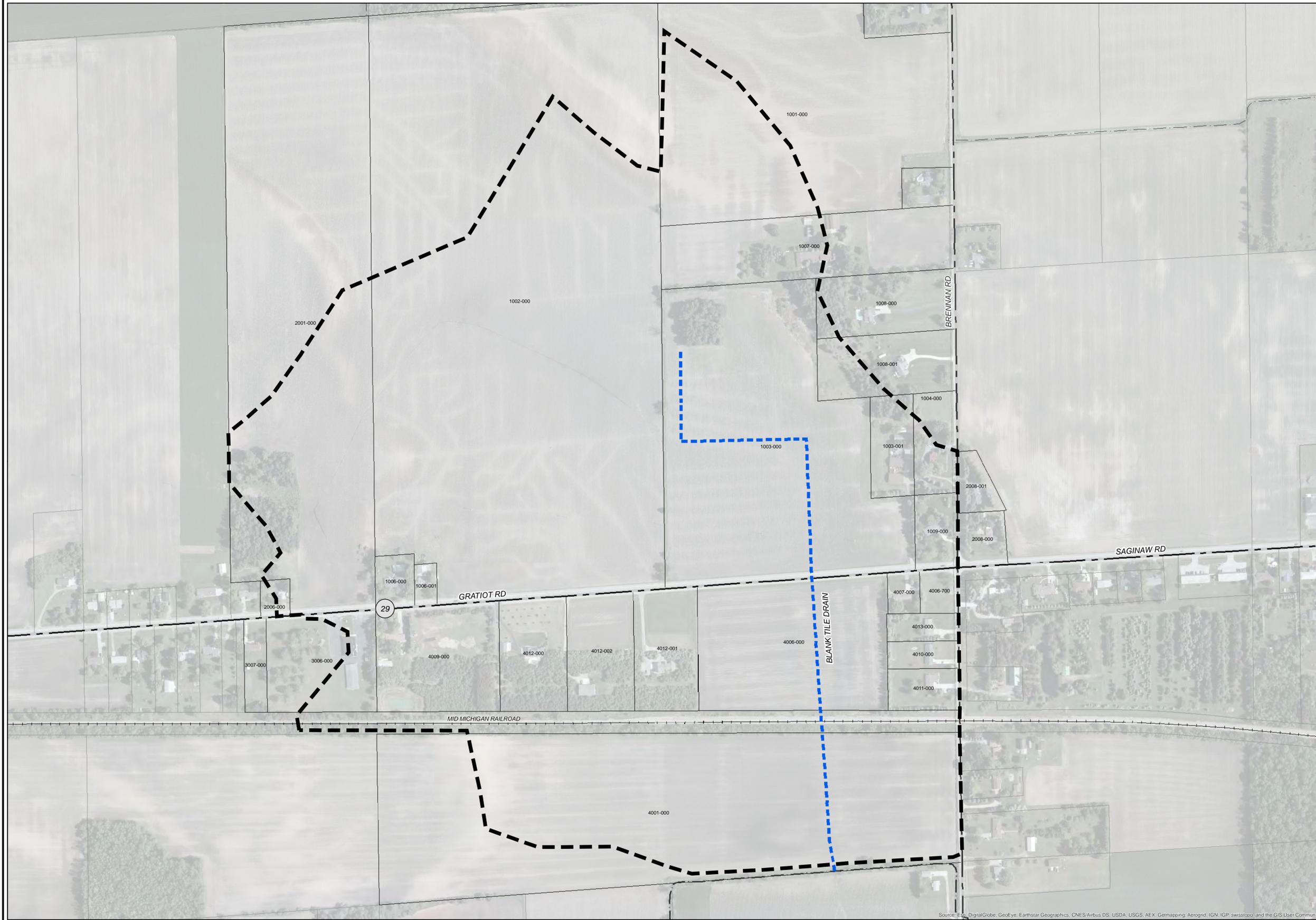
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PROJECT DATUM		
HORIZONTAL:	STATE PLANE SOUTH M '83 2113	
VERTICAL:	NORTH AMERICAN VERTICAL DATUM '89	
BY	MARK	REVISIONS
		DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>		
<p>BLANK TILE DRAIN SAGINAW COUNTY, MICHIGAN</p>		
<p>GENERAL NOTES</p>		
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>
DE. BY: LDO	CH. BY: NDC	PROJECT NO. 1228485G2015
DR. BY: POC	APP. BY: RBH	
STDS.	SHEET 2 OF 5	DR 2
DATE: SEPTEMBER 2016	FILE NO. DR-2958-02	
SCALE: NOT TO SCALE		

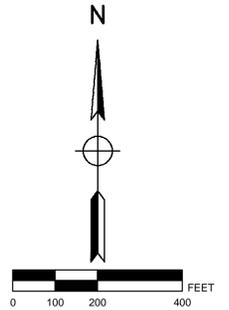


# BLANK TILE DRAIN SAGINAW COUNTY, MICHIGAN

BRIAN J. WENDLING. - SAGINAW COUNTY PUBLIC WORKS COMMISSIONER



AREA MAP  
NOT TO SCALE



**LEGEND**

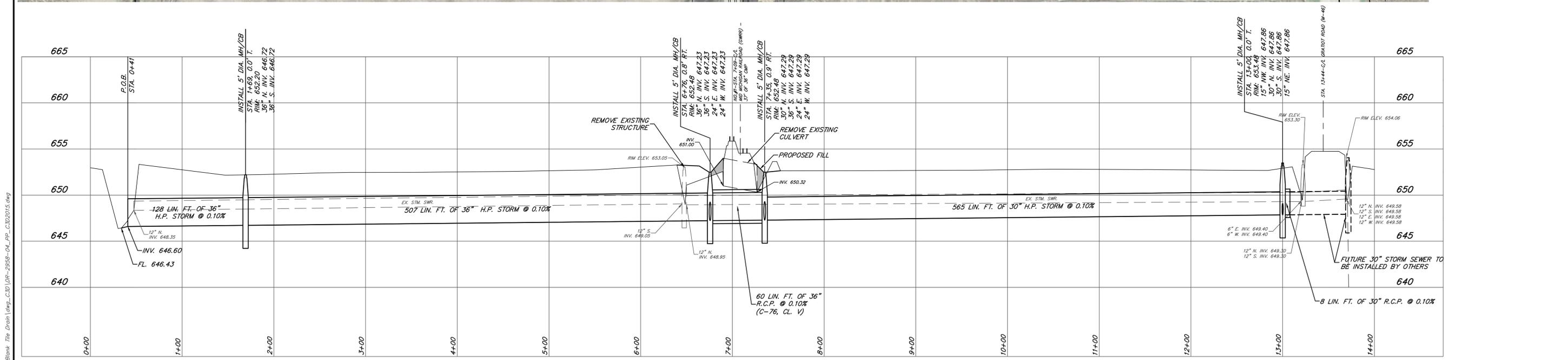
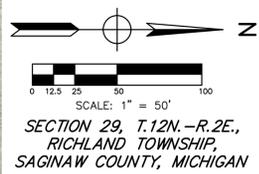
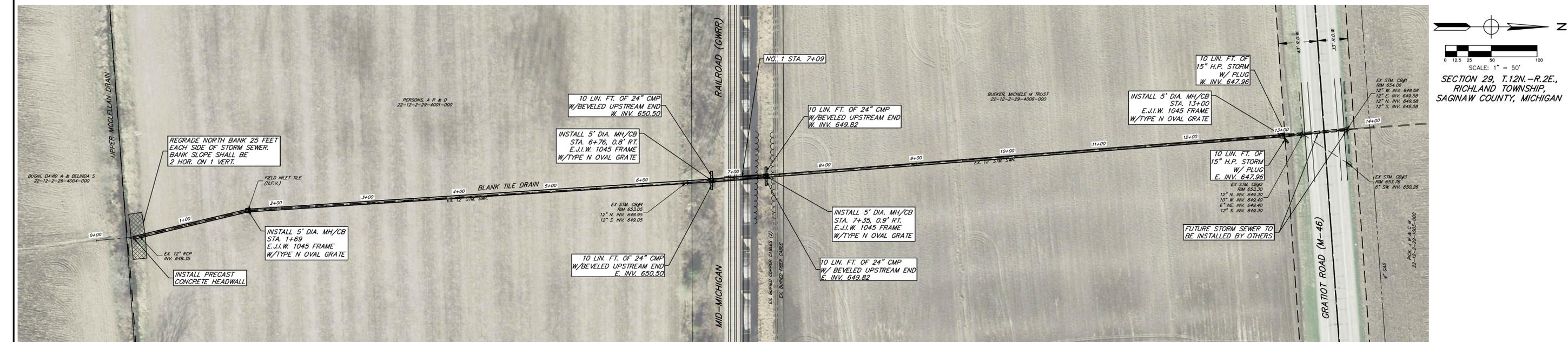
- DRAINAGE DISTRICT BOUNDARY
- APPROXIMATE DRAIN LOCATION
- APPROXIMATE LOCATION OF OUTLET DRAIN
- OTHER WATERCOURSES
- STATE ROADS
- COUNTY ROADS
- LOCAL ROADS

BY	MARK	REVISIONS	DATE
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<b>BLANK TILE DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>DRAINAGE DISTRICT MAP</b>			
DE. BY: LDO DR. BY: LDO		CH. BY: NDC APP. BY: RBH	
STDS.		PROJECT NO. 122848SG2015	
DATE: SEPTEMBER 2016 SCALE: 1" = 200'		SHEET 3 OF 5 FILE NO. DR - 2958-03	
			DR 3

P:\17\_10\_P\170101122848SG2015 - BLANK TILE DRAIN\GIS\MAPS\386403\_DISTRICT\_MAP\000\_PRINTED ON 09/27/16 BY: JWB/BLD

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Geomatics, Aerotrig, IGN, IGP, swisstopo, and the GIS User Community

ACAD FILE: G:\Proj\2015\1228485G2015 - Blank Tile Drain.dwg; C:\DR-2958-04\_PP\_C302015.dwg



NO. 1 - STA. 7+09 - MID-MICHIGAN RAILROAD (GENESEE & WYOMING RAILROAD)  
REMOVE EXISTING CULVERT. COST FOR REMOVAL INCLUDED IN UNIT BID PRICE FOR PROPOSED STORM SEWER. SEE SHEET 5 FOR DETAILS.

QUANTITIES THIS SHEET		
ITEM	UNIT	QTY.
5' DIA. MH/CB	EACH	4
15" H.P. STORM	LIN. FT.	20
24" C.M.P.	LIN. FT.	40
30" H.P. STORM	LIN. FT.	565
30" R.C.P.	LIN. FT.	8
36" H.P. STORM	LIN. FT.	635
36" R.C.P.	LIN. FT.	60
PRECAST CONCRETE HEADWALL	EACH	1

- CONSTRUCTION NOTES**
- STA. 0+41 - HEADWALL TO CONFORM TO MDOT STANDARD OUTLET HEADWALL DETAIL FOR 36" STORM SEWER.
  - REDIRECT EXISTING RAILROAD DITCHES TO PROPOSED 24" C.M.P. INLETS.
  - FILL IN EXISTING DITCHES AS NEEDED TO ACHIEVE COVER OVER PROPOSED STORM SEWER.
  - COST FOR REGRADING OF NORTH BANK OF UPPER MCCLELLAN DRAIN INCLUDED IN UNIT BID PRICE FOR PRECAST CONCRETE HEADWALL.
  - STA. 13+22 - PROVIDE TEMPORARY CONNECTION TO EXISTING STORM SEWER.
- BENCH MARKS**
- NO. 200 - GEARSPIKE IN THE NORTH FACE OF TELEPHONE POLE SOUTHWEST OF BRENNAN ROAD. ELEV. 654.40
- NO. 202 - GEARSPIKE IN THE NORTH FACE OF POWER POLE 1335' SOUTH OF GRATOT ROAD (M-46) EAST OF BRENNAN ROAD. ELEV. 654.95

**RIGHTS-OF-WAY**  
DRAIN RIGHT-OF-WAY 16.5 FT. EACH SIDE OF DRAIN.

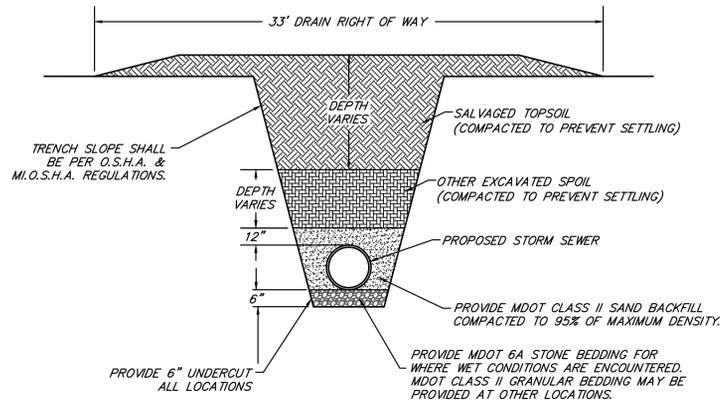
BY	MARK	REVISIONS	DATE

BLANK TILE DRAIN  
SAGINAW COUNTY, MICHIGAN

**PLAN AND PROFILE**  
STA. 0+00 TO STA. 14+00


**SAGINAW OFFICE**  
 230 S. Washington Ave.  
 Saginaw, MI 48607  
 Tel. 989-754-4717  
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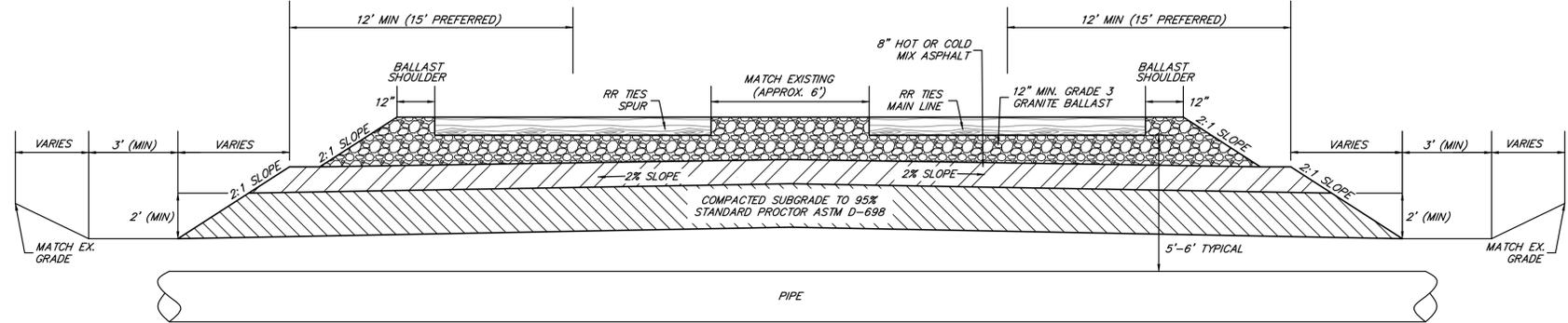
DE. BY: LDO	CH. BY: NDC	PROJECT NO.
DR. BY: POC	APP. BY: RBH	1228485G2015
STDS.	SHEET 4 OF 5	DR
DATE: SEPTEMBER 2016	FILE NO.	4
SCALE: H: 1"=50' V: 1"=5'	DR-2958-04	



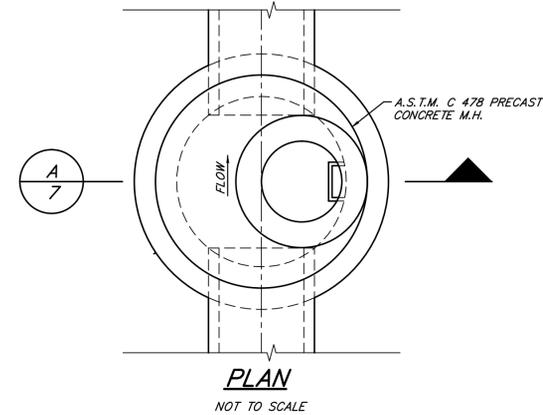
**TYPICAL STORM SEWER TRENCH DETAIL**  
NOT TO SCALE

**TRENCH WIDTH CHART**

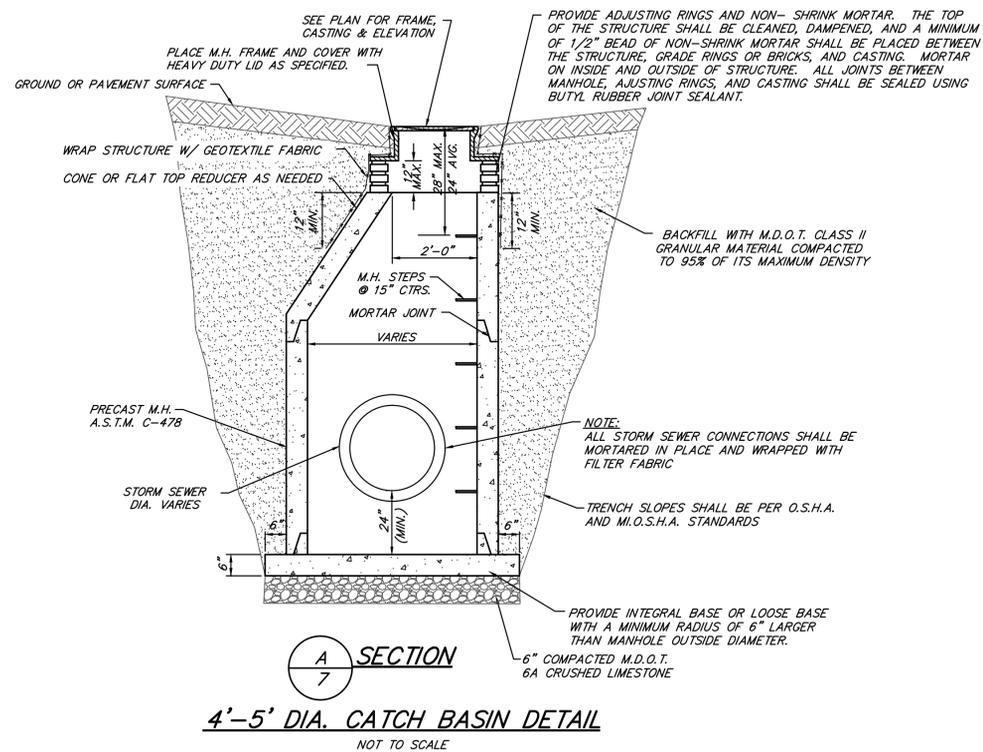
PIPE SIZE	MINIMUM	MAXIMUM
8" & 10"	24"	30"
12" & 15"	30"	36"
18"	34"	40"
21"	38"	42"
24"	42"	46"
27"	46"	49"
30"	49"	53"
36"	56"	60"
LARGER THAN 36"	I.D. +20"	I.D. +24"



**TYPICAL TRACK CROSS SECTION**  
NOT TO SCALE



**PLAN**  
NOT TO SCALE



**4'-5' DIA. CATCH BASIN DETAIL**  
NOT TO SCALE

BY	MARK	REVISIONS	DATE
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<p>BLANK TILE DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p>MISCELLANEOUS DETAILS</p>			
<p>DE. BY: POC DR. BY: POC</p>		<p>CH. BY: NDC APP. BY: RBH</p>	
<p>PROJECT NO. 122848SG2015</p>		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>	
<p>STDS.</p>		<p>SHEET 5 OF 5</p>	
<p>DATE: SEPTEMBER 2016 SCALE: AS SHOWN</p>		<p>FILE NO. DR-2958-05</p>	
		<p>DR 5</p>	