

STAGES OF CONSTRUCTION:

1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS. MONTH 1
2. INSTALLATION OF CONSTRUCTION ENTRANCE. MONTH 1
3. INSTALLATION OF EROSION CONTROL FENCE. MONTH 1
4. DEMOLITION OF EXISTING SITE IMPROVEMENTS. MONTH 1
5. REMOVAL OF EXISTING PAVEMENT ON THE SITE. MONTH 1
6. INSTALLATION OF ALL STORMWATER DRAINAGE IMPROVEMENTS. MONTH 1
7. ROUGH GRADING. MONTH 1 & MONTH 2
8. CONSTRUCTION OF NEW SITE IMPROVEMENTS. MONTH 2
9. FINAL GRADING. MONTH 3
10. REPLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD. MONTH 3
11. REMOVAL OF EROSION CONTROL FENCE. MONTH 3

SPECIAL NOTE:
FIELD VERIFY SANITARY SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.

SPECIAL NOTE:
CONTRACTOR SHALL FIELD VERIFY PROPOSED GRADES MATCH EXISTING PAVEMENT AT DRIVEWAY ENTRANCES. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCY OCCURS.

CONSTRUCTION EGRESS NOTES:

1. CONSTRUCTION EGRESS SHALL BE 25' MINIMUM WIDTH AND 30' MINIMUM LENGTH AND 6" MIN THICKNESS OF STONE (1.5"-3.5") COARSE AGGREGATE WITH GEOTEXTILE UNDERLINER. REFER TO THE CITY OR STATE FOR ANY ADDITIONAL REQUIREMENTS.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
3. WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN LOCATED PER THE CITY OR STATE REQUIREMENTS.

EROSION CONTROL & MAINTENANCE PLAN NOTES:

1. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. REFER TO 10/C3 FOR SILT FENCE CONSTRUCTION.
7. ALL GRASS SLOPES WHICH EXCEED 4:1 (H:V) SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MATS TRM 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.

GENERAL NOTES:

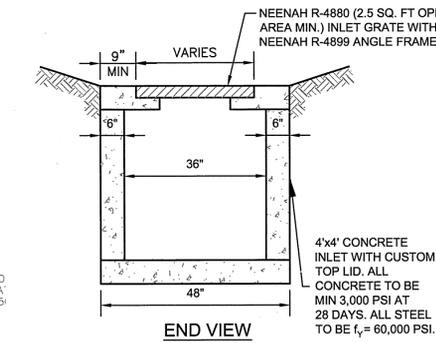
- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- C. FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION.
- D. COORDINATE WORK WITH OTHER SIZE RELATED DEVELOPMENT DRAWINGS.

PIPES NOTES:

1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP), HIGH DENSITY POLYETHYLENE (HDPE), N-12 CORRUGATED METAL PIPE (CMP) MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER.

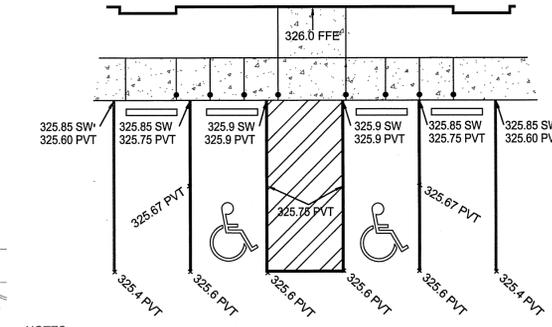
RIPRAP NOTE:

PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 50-150 POUNDS EACH, AND AT LEAST 60 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. STONES SHALL BE A MINIMUM OF 12" IN DIAMETER AND PLACED A MINIMUM OF 18" BELOW FINISH GRADE.



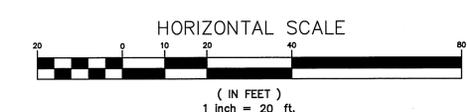
NOTE: MIN. #4 BARS @ 12" O.C. (ALL WALLS VERT, HOR, & SLAB)

3 4'x4' AREA INLET
C1 SCALE: NOT TO SCALE



NOTES:
HANDICAP AREA TO BE ADA COMPLIANT.
SLOPES SHALL NOT EXCEED 2.0% IN ANY DIRECTION IN THIS AREA.

2 HANDICAP PARKING DETAIL
C1 SCALE: 1" = 10'

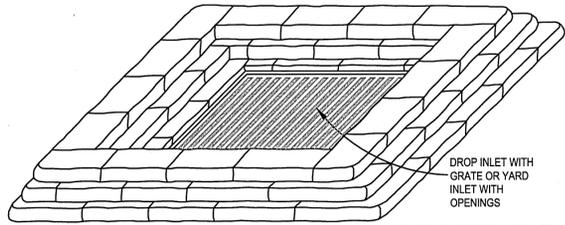


FLOOD ZONE:

SUBJECT PROPERTY IS DESIGNATED IN MAP NUMBER 4103C0604 F, ZONE X, AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, DATED JUNE 2, 1999.

SITE EXCAVATION REQUIREMENTS:

1. A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. REFER TO PROJECT MANUAL.
2. FOLLOW GEOTECHNICAL ANALYSIS RECOMMENDATION FOR SITE EXCAVATION.
3. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.



- NOTES:
1. FILL BAGS WITH 5/8" CRUSHED LIMESTONE.
 2. BAGS SHALL BE BURLAP OR BIODEGRADABLE PLASTIC.
 3. BAGS SHALL BE INSPECTED AND REPLACED AS NEEDED.

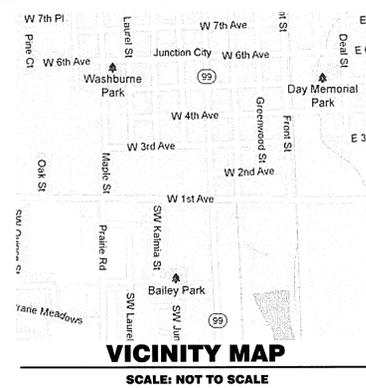
4 INLET SEDIMENT FILTER
C1 SCALE: NOT TO SCALE

SITE GRADING KEY NOTES:

1. INSTALL 10 LF OF 12"Ø PIPE. CONNECT TO EXIST INLET @ INV=321.3. REFER TO PIPE NOTES.
2. INSTALL 4'x4' AREA INLET. RIM=325.0, INV=321.5. REFER TO DETAIL 3/C1.
3. INSTALL 44 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
4. INSTALL 4'x4' AREA INLET. RIM=323.8, INV=321.8. REFER TO DETAIL 3/C1.
5. INSTALL 19 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
6. INSTALL 4'x4' AREA INLET. RIM=324.3, INV=321.0. REFER TO DETAIL 3/C1.
7. INSTALL 83 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
8. INSTALL 4'x4' AREA INLET. RIM=324.0, INV=321.4. REFER TO DETAIL 3/C1.
9. INSTALL 47 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
10. INSTALL 4'x4' AREA INLET. RIM=323.6, INV=321.6. REFER TO DETAIL 3/C1.
11. INSTALL 4'x4' AREA INLET. RIM=323.9, INV=321.0. REFER TO DETAIL 3/C1.
12. INSTALL 10 LF OF 12"Ø PIPE. CONNECT TO EXIST INLET @ INV=321.0. REFER TO PIPE NOTES.

EROSION CONTROL KEY NOTES:

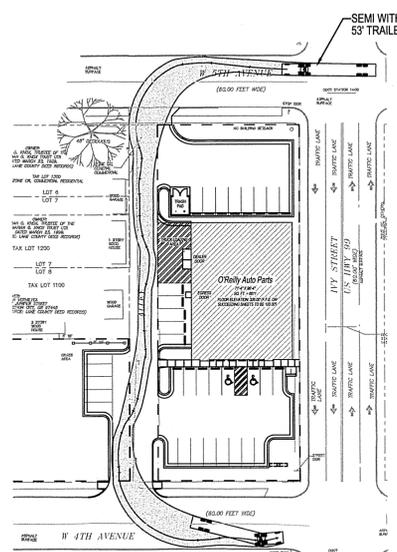
- E1 LIMITS OF DISTURBED AREA.
- E2 LIMITS OF TEMPORARY SILT SOXX. REFER TO DETAIL 10/C3.
- E3 TEMPORARY CONSTRUCTION EGRESS. INSTALL PER NOTES.
- E4 TEMPORARY INLET SEDIMENT FILTER. REFER TO DETAIL 4/C1.



VICINITY MAP
SCALE: NOT TO SCALE

STORM WATER RUNOFF SUMMARY:

TOTAL PROPERTY AREA = 0.574 ACRES
TOTAL DISTURBED AREA = 0.83 ACRES < 1.0 ACRES, THEREFORE NOI NOT REQUIRED
EXISTING IMPERVIOUS AREA = 0.89 AC
DEVELOPED IMPERVIOUS AREA = 0.62 AC
DEVELOPED IMPERVIOUS AREA IS LESS THAN THE EXISTING IMPERVIOUS AREA, THEREFORE NO DETENTION IS REQUIRED.



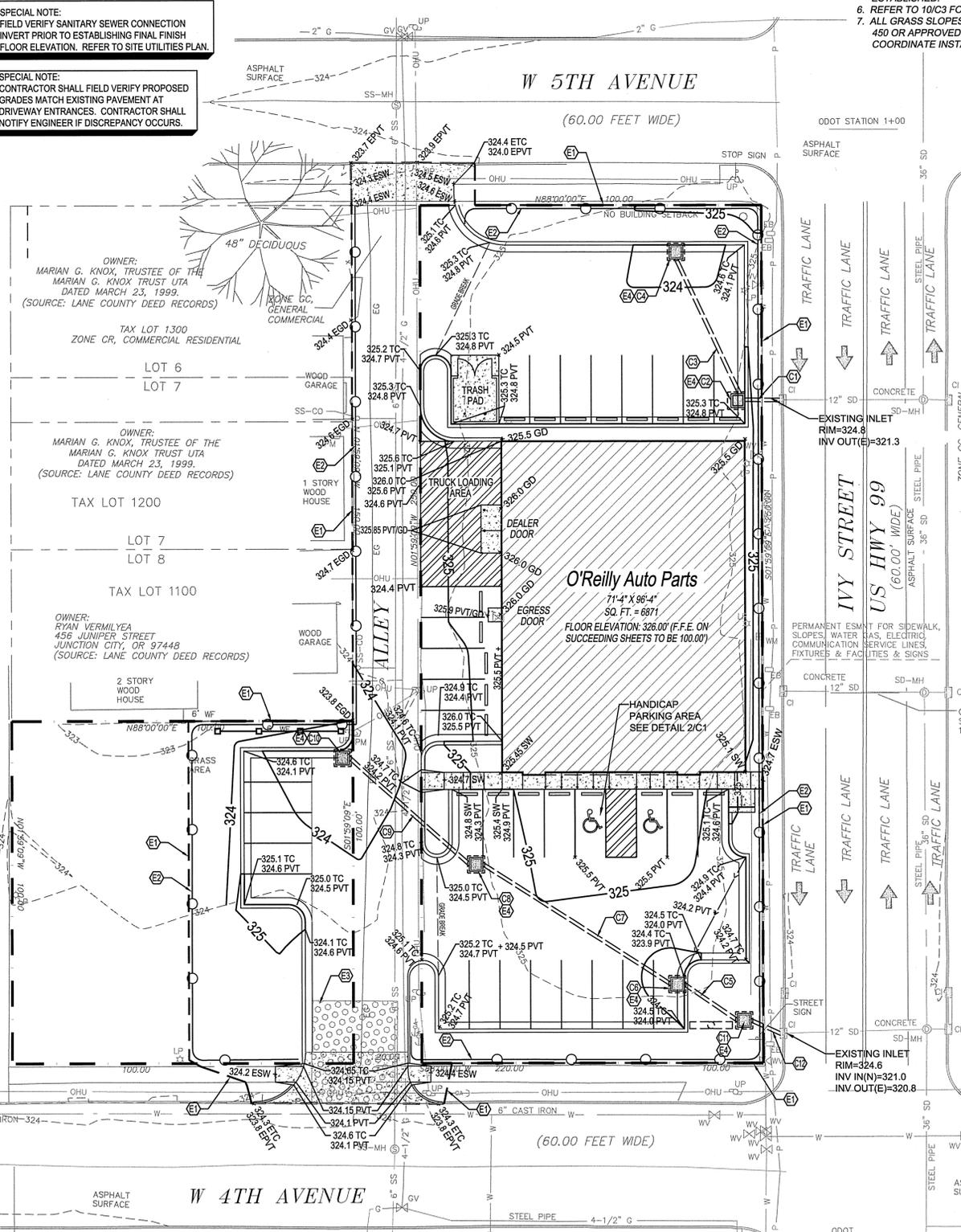
5 AUTOTURN MOVEMENT
C1 SCALE: NOT TO SCALE

INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SYMBOLS LEGEND

REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.			
SYMBOL	DESCRIPTION	NEW SPOT ELEVATIONS LIST	ABBREVIATION
---	EXISTING GRADE LINES	GRADE	NONE
---	PROPOSED NEW GRADE LINES	SIDEWALK	SW
---		TOP OF WALL	TW
---		TOP OF CURB	TC
---		TOP OF PAVEMENT	PVT
---		NEW GRADE	GD
---		CONCRETE	CONC
---		EXISTING TOP OF CURB	ETC
---		EXISTING GRADE	EGD
---		EXISTING PAVEMENT	EPVT
---		EXISTING SIDEWALK	ESW
---		FLOW LINE	FL
---		TOP OF BERM	TOP
---		TEMPORARY BENCHMARK:	
---		LOCATION: NORTHEAST CORNER OF PARCEL 2 BEING A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DEJARNATT".	
---		ELEVATION = 2325.20.	
---		(REFER TO SHEET SV1)	

1 SITE GRADING PLAN
C1 SCALE: 1" = 20'



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2045 W. WOODLAND - SPRINGFIELD, MISSOURI 65804 - PHONE (417) 866-2741
REGISTERED ENGINEER - PAUL J. ENGEL, P.E. #8420PE
BY: ATH REVISIONS:
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DRAWING #
WB-109-726

NOT FOR CONSTRUCTION

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DATE: 5-30-13
REVISION DATE: