

INDEX OF DRAWINGS

	SHEET NO.:	DESCRIPTION:	LATEST DATE:	REVISION:
•	1	C0.01	COVER SHEET	10/25/2022
•	2	C0.10	ENGINEERS GENERAL NOTES	10/25/2022
•	3	C0.11	CITY OF AVONDALE GENERAL NOTES	10/25/2022
•	4	C1.00	REMOVAL PLAN	10/25/2022
•	5	C2.00	PRELIMINARY SITE PLAN	10/25/2022
•	6	C2.10	SITE PLAN DETAILS	10/25/2022
•	7	C3.00	GRADING AND DRAINAGE PLAN	10/25/2022
•	8	C3.10	GRADING AND DRAINAGE DETAILS	10/25/2022
•	9	C3.11	GRADING AND DRAINAGE DETAILS	10/25/2022
•	10	C3.12	GRADING AND DRAINAGE DETAILS	10/25/2022
•	11	C3.13	GRADING AND DRAINAGE DETAILS	10/25/2022
•	12	C3.20	SITE CROSS SECTIONS	10/25/2022
•	13	C3.60	PAVEMENT JOINTING PLAN	10/25/2022
•	14	C3.61	PAVEMENT JOINTING DETAILS	10/25/2022
•	15	C4.00	UTILITY PLAN	10/25/2022
•	16	C4.10	UTILITY PLAN	10/25/2022
•	17	C5.00	STORM WATER POLLUTION PREVENTION PLAN	10/25/2022
•	18	C5.10	STORM WATER POLLUTION AND PREVENTION PLAN DETAILS	10/25/2022

• FILLED CIRCLE INDICATES PLAN IS INCLUDED WITH THIS SUBMITTAL

PROJECT INFO

PROJECT LOCATION:
SITE ADDRESS: NEC McDOWELL RD & 107TH AVE AVONDALE, ARIZONA

PROJECT DESCRIPTION:
PROPOSED DEVELOPMENT IS A 3,751 S.F. RESTAURANT WITH DRIVE-THRU, PARKING AND LANDSCAPE AREAS INCLUDING OFF-SITE CROSS ACCESS DRIVES.

PARCEL DATA:

ASSESSOR PARCEL NUMBER: 102-32-391
NET AREA (LOT A + LOT B): 107,237 SF (2.46 AC)
SUBJECT PARCEL NET AREA (LOT A): 56,301 SF (1.29 AC)
DISTURBED AREA: 72,215 SF (1.66 AC)
ZONING: PAD C-2

BASIS OF BEARING:

THE BASIS OF BEARING IS THE MONUMENT LINE OF MCDOWELL ROAD, ALSO BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 32, USING A BEARING OF SOUTH 89 DEGREES 53 MINUTES 26 SECONDS EAST, PER THE FINAL PLAT OF BIOLIFE AVONDALE, RECORDED IN BOOK 1504 OF MAPS, PAGE 50, RECORDS OF MARICOPA COUNTY, ARIZONA.

BENCHMARK:

THE BENCHMARK USED FOR THIS SURVEY IS THE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION POINT 23105-1, UNIQUE POINT ID 3629 BEING THE SOUTH QUARTER CORNER OF SECTION 32, MARKED BY A 3" CITY OF PHOENIX BRASS CAP IN HANDHOLE, LOCATED IN THE INTERSECTION OF 103RD AVENUE AND MCDOWELL ROAD, HAVING AN ELEVATION OF 1019.593 FEET, (NAVD 88).

FEMA

MAP NUMBER	COMMUNITY NUMBER	PANEL #	PANEL DATE	SUFFIX	FIRM ZONE	BASE FLOOD ELEVATION (IN AO ZONE USE DEPTH)
04013C2160M	040038	2160	09/18/2020	M	X (SHADE)	N/A

PROJECT TEAM

DEVELOPER:
DESERT DE ORO FOODS INC
3845 STOCKTON HILL RD
KINGMAN, AZ 86409
PHONE: 928-530-3607
ATTN.: MARK LOWRY
EMAIL: MARKLOWRY@DDOFOODS.COM

CIVIL ENGINEER
SUSTAINABILITY ENGINEERING GROUP
8280 E. GELDING DR., SUITE 101
SCOTTSDALE, AZ 85260
PHONE: 480-588-7226
ATTN: ALI FAKIH
EMAIL: ALI@AZSEG.COM

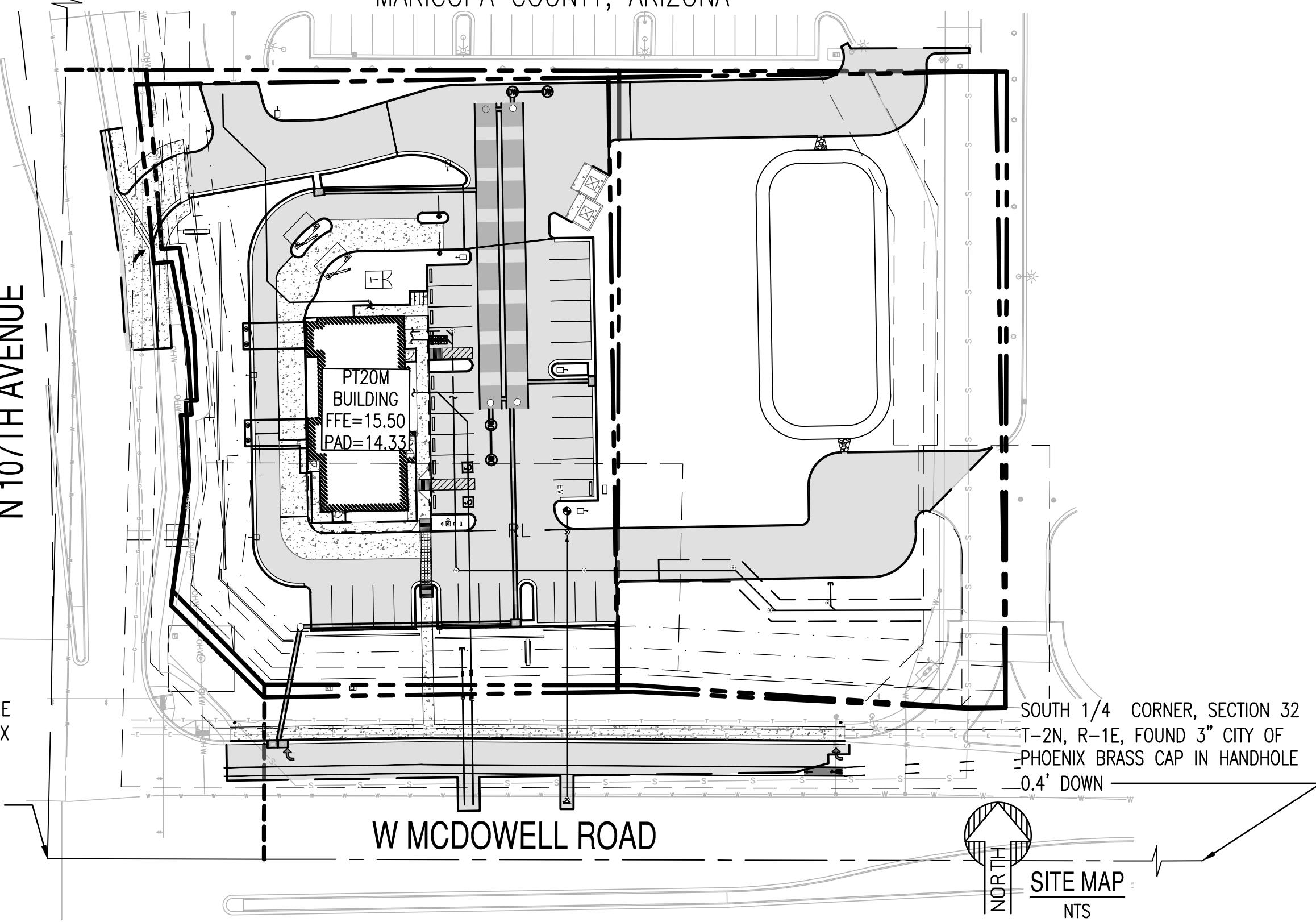
ARCHITECT
SUSTAINABILITY ENGINEERING GROUP
8280 E. GELDING DR., SUITE 101
SCOTTSDALE, AZ 85260
PHONE: 480-237-2510
ATTN: BOB HANSEN
EMAIL: BOB@AZSEG.COM

SURVEYOR
SUPERIOR SURVEYING SERVICES, INC.
2122 W. LONE CACTUS DRIVE, SUITE 11
PHOENIX, AZ 85027
PHONE: 623-869-0223
ATTN.: JAMES WILLIAMSON
EMAIL: JAMES@SUPERIORSURVEYING.COM

WHATABURGER AVONDALE

COVER SHEET

NEC McDowell Rd & 107th Ave, Avondale, Arizona.
A PORTION OF THE SOUTHWEST QUARTER OF SECTION 32, TOWNSHIP 2 NORTH, RANGE 1 EAST, OF GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA



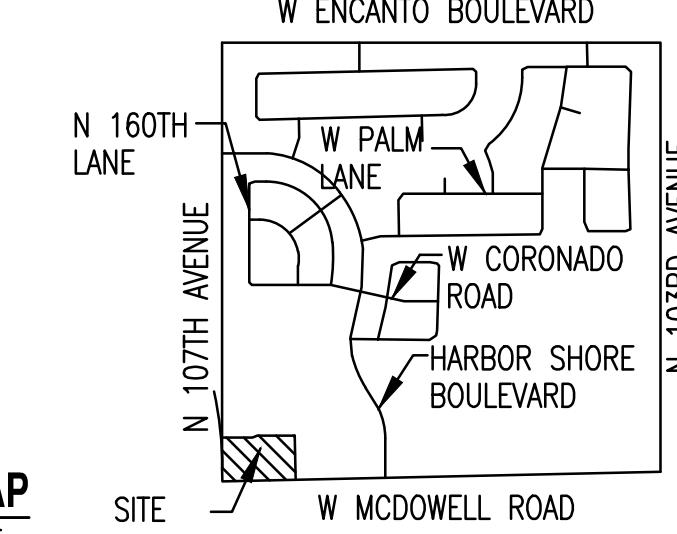
QUANTITIES

PRIVATE			
DESC.	ITEM	QTY.	UNIT
PAVING	HEAVY DUTY PAVEMENT	3,850	SY
CONCRETE	CONCRETE PAVEMENT	367	SY
	CONCRETE SIDEWALK	187	SY
	ADA RAMPS	3	EA
	6" VERTICAL CURB	1,359	LF
	6" CURB AND GUTTER	771	LF
	EXTRUDED CURB	351	LF
	REDUCER	2	EA
WATER	WATER SERVICE LINE (8" DIP)	60	LF
	FIRE SERVICE LINE (6" DIP)	161	LF
	IRRIGATION SERVICE LINE (1")	21	LF
	DOMESTIC SERVICE LINE (1.5")	155	LF
SEWER	FIRE HYDRANT ASSEMBLY (INCLUDES GV)	1	EA
	6" PVC	308	LF
	CLEAN OUT	4	EA
	18" HDPE PIPE	326	LF
	30" CMP RISER	4	EA
STORM	120" CMP	140	LF
	DRYWELL	2	EA
	NYLOPLAST 30" WITH SOLID LID	1	EA
	NYLOPLAST 2'X3' CB	3	EA

OFF-SITE GRADING AND DRAINAGE QUANTITIES			
DESC.	ITEM	QTY.	UNIT
WATER	T.S.V.B.&C.	1	EA
	WATER SERVICE LINE (8" DIP)	60	LF
	IRRIGATION SERVICE LINE (1")	49	LF
	DOMESTIC SERVICE LINE (1.5")	48	LF
	DOMESTIC METER	1	EA
	IRRIGATION METER	1	EA

QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITIES FOR BIDDING PURPOSES.

VICINITY MAP



ENGINEERS AS-BUILT CERTIFICATION

AS BUILT CERTIFICATION:
I CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ENGINEER OF RECORD _____ DATE _____

REGISTRATION NO. _____

APPROVALS

MCESD SIGNATURE BLOCK

SIGNATURE _____ DATE _____

MCESD PERMIT NUMBERS:
DWR-XX-XXXX
WWR-XX-XXXX

IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.C.) R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1ST, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER, SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.

PERMIT/AS-BUILT INFORMATION

AS-BUILT INFORMATION IS INCLUDED IN THESE AREAS ON THIS SET OF DRAWINGS	PERMITS REQUIRED FOR THIS SET OF DRAWINGS
<input type="checkbox"/> SEWER <input type="checkbox"/> WATER <input type="checkbox"/> WATER-RECLAIMED <input type="checkbox"/> STORM DRAIN <input type="checkbox"/> DRYWELL <input type="checkbox"/> PAVING <input type="checkbox"/> OFFSITE (C,C,SW,DW) <input type="checkbox"/> GRADING/DRAINAGE	<input type="checkbox"/> U.G. FIRE LINE <input type="checkbox"/> CITY IRRIG. <input type="checkbox"/> BIKE PATH <input type="checkbox"/> LANDSCAPE <input type="checkbox"/> SPRINKLER <input type="checkbox"/> STREET LIGHTS <input type="checkbox"/> FLOOD PLAIN <input type="checkbox"/> BUILDINGS <input type="checkbox"/> X.U.G. FIRE LINE <input type="checkbox"/> OTHER
AS-BUILT PLANS CHECKED FOR FIELD CHANGES INSPECTOR: _____ DATE: _____	PARCEL #: _____ PROJECT #: _____

CONFLICTS

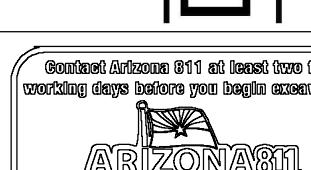
NO CONFLICT SIGNATURE BLOCK

UTILITY	UTILITY COMPANY	NAME OF COMPANY REPRESENTATIVE	TELEPHONE NUMBER	DATE SUBMITTED
ELECTRIC	SRP	BEATRICE SAUCEDA	623-975-5757	10/21/2020
TELEPHONE	CENTURYLINK	KATHY HADRICH	602-630-5480	10/22/2020
NATURAL GAS	SW GAS	ARBAR LONDON	602-484-5649	12/03/2020
CABLE/TV	COX	ANNIE SANDOVAL	623-328-2431	10/23/2020

ENGINEER'S CERTIFICATION:
I, ALI FAKIH, AS THE ENGINEER OF RECORD FOR THIS DEVELOPMENT, HEREBY CERTIFY THAT ALL UTILITY COMPANIES LISTED ABOVE HAVE BEEN PROVIDED FINAL IMPROVEMENT PLANS FOR REVIEW, AND THAT ALL CONFLICTS IDENTIFIED BY THE UTILITIES HAVE BEEN RESOLVED. IN ADDITION, 'NO CONFLICT' FORMS HAVE BEEN OBTAINED FROM EACH UTILITY COMPANY AND ARE INCLUDED IN THIS SUBMITTAL.

SIGNATURE _____ DATE 10/20/2022

Desert De Oro Foods
INC



PROJECT WHATABURGER AVONDALE LOCATION NEC N. 107TH AVE AND W. McDowell Road

DRAWN DS 10/21/2022
DESIGNED LR/DS 10/21/2022
QC SC 10/21/2022
FINAL QC LA 10/25/2022
PROJ. MGR. AF 10/25/2022
DATE: 10/25/2022
ISSUED FOR: PERMITS
REVISION NO.: DATE:
JOB NO.: 201015
SHEET TITLE: COVER SHEET

PAGE NO.: SHEET NO.:
101 OF 18 CO.01

ENGINEERS GENERAL NOTES:

A. GENERAL PLAN ITEMS:

- THESE GENERAL NOTES SHALL BE APPLICABLE TO ALL SHEETS WITHIN THIS SET OF DRAWINGS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. LOCATIONS ARE BASED ON THE BEST AVAILABLE REFERENCE PLANS AND AN ACTUAL FIELD SURVEY OF VISIBLE STRUCTURES.
- THE FIELD SURVEY WAS PERFORMED BY SUPERIOR SURVEYING SERVICES, INC. AND PRESENTED AS AN ALTA/NSPS LAND TITLE SURVEY DATED FEBRUARY 19, 2020. IT IS BELIEVED THAT THE SURVEY IS ESSENTIALLY CORRECT, BUT SEG DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY INFORMATION AND ASSUMES NO RESPONSIBILITY FOR ERRORS DUE TO INACCURATE OR INCOMPLETE SURVEY DATA.
- ALL DIMENSIONS AND / OR COORDINATES SHOWN ON THESE DRAWINGS ARE TO BACK OF CURB, CENTER OF STRUCTURE OR SIGN, OUTSIDE FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
- NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

B. SITE PLANNING CONSIDERATIONS

- DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
- FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
- ALL ROOFTOP EQUIPMENT AND SATELLITE DISHES SHALL BE SCREENED TO THE HEIGHT OF THE TALLEST EQUIPMENT.
- ALL SERVICE AREAS SHALL BE SCREENED TO CONCEAL TRASH CONTAINERS, LOADING DOCKS, TRANSFORMERS, BACKFLOW PREVENTERS AND OTHER MECHANICAL OR ELECTRICAL EQUIPMENT FROM EYE LEVEL ADJACENT TO ALL PUBLIC STREETS.
- IF APPLICABLE, PEDESTRIAN ACCESS ROUTES ARE PROVIDED IN COMPLIANCE WITH THE LATEST ADA STANDARDS. ALL RAMPS MUST MEET ADA ACCESSIBILITY GUIDELINES (ADAAG) STANDARDS, 2% MAX CROSS SLOPES, AND 5% MAXIMUM LONGITUDINAL SLOPES. TRUNCATED DOMES, AS DETECTABLE WARNINGS, ARE REQUIRED ON SIDEWALK RAMPS THAT CROSS OR ADJOIN A VEHICULAR WAY WHERE SHOWN ON THE PLANS, PER ADAAG SECTION 705.
- PIPE BOLLARDS SHALL BE INSTALLED IN TRAFFIC AND LOADING AREAS AS REQUIRED TO PROTECT BUILDING CORNERS, RECEIVING AREAS, HYDRANTS, TRANSFORMERS, METERS, GENERATORS, COMPACTORS, STEPS, AND RAILINGS, AS NECESSARY.
- ALL SIGNAGE REQUIRES SEPARATE APPROVAL AND PERMITS.
- A MINIMUM 6-FOOT HORIZONTAL SEPARATION BETWEEN WATER AND SEWER PIPELINES WILL BE MAINTAINED.
- OWNERS OF PROPERTY ADJACENT TO THE PUBLIC RIGHT-OF-WAY WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING WITHIN THE RIGHT-OF-WAY IN ACCORDANCE WITH APPROVED PLANS.

C. CODE COMPLIANCE:

- WORK SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING AGENCIES HAVING JURISDICTION. GRADING, PAVING, AND MATERIALS SHALL COMPLY WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.
- THE CONTRACTOR AT ALL TIMES SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION OF THIS PROJECT. SPECIAL CARE SHALL BE TAKEN DURING ALL TRENCHING OPERATIONS. SHEETING AND BRACING, CRIBBING, ETC. MUST BE INSTALLED AS REQUIRED TO PROVIDE MAXIMUM SAFETY TO THE CONTRACTOR'S WORKERS IN FULL COMPLIANCE WITH OSHA REGULATIONS.
- THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- THE CONTRACTOR SHALL PREPARE ALL TRAFFIC CONTROL PLANS PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS FOR WORK WITHIN THE MUNICIPALITY, COUNTY, OR STATE RIGHTS-OF-WAYS. THE PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS MODIFIED BY THE ADOT SUPPLEMENT TO THE MUTCD. THE PLAN SHALL ADDRESS THE REQUIREMENTS FOR ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS, HOURS OF CONSTRUCTION, AND OTHER DEVICES AS NECESSARY FOR SAFE TRAFFIC CONTROL.
- SIGNING AND STRIPING WILL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS MODIFIED BY THE STATE DOT SUPPLEMENT TO THE MUTCD. ACCESSIBLE SPACES SHALL BE PAINTED AND SIGNED IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- PEDESTRIAN ACCESS ROUTES SHALL BE CONSTRUCTED TO THE LATEST ADA REQUIREMENTS AS FOLLOWS:
 - THE MAXIMUM CROSS SLOPE OF ANY SIDEWALK OR PEDESTRIAN ACCESS ROUTE SHALL BE 2.0 PERCENT MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
 - SIDEWALKS AND PEDESTRIAN ACCESS ROUTES SHALL HAVE A MAXIMUM GRADE OF 5.0 PERCENT MEASURED IN THE DIRECTION OF TRAVEL.
 - ACCESS ROUTES WITH SLOPES GREATER THAN 5.0 PERCENT ARE CONSIDERED RAMPS. RAMPS MAY HAVE A MAXIMUM SLOPE OF 8.33 PERCENT FOR A MAXIMUM RISE OF 30 INCHES. A 5-FOOT BY 5-FOOT PAD SHALL BE CONSTRUCTED AT THE TOP AND BOTTOM OF ANY RAMP HAVING A CHANGE IN TRAVEL DIRECTION. THE PAD SHALL HAVE A MAXIMUM 2.0 PERCENT SLOPE IN ANY DIRECTION. ALL RAMPS WITH A RISE GREATER THAN 6-INCHES REQUIRE A HAND RAIL.

D. CONTRACTOR VERIFICATION / COORDINATION ITEMS:

- THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, TYPE & MATERIAL, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT.
- TWO WORKING DAYS BEFORE ANY EARTH MOVING ACTIVITIES, CALL THE UTILITY NOTIFICATION CENTER ARIZONA BLUE STAKE, (800) 782-5348, OR (602)263-1100 IF IN MARICOPA COUNTY, FOR THE MARKING OF MEMBER UNDERGROUND UTILITIES. ANY UTILITY DAMAGED BY CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND EXPOSE PERTINENT LOCATIONS AND ELEVATIONS, SPECIFICALLY AT CONNECTION POINTS AND AT POTENTIAL POINTS OF CONFLICT TO DETERMINE ANY NEGATIVE EFFECT ON THE PROPOSED CONSTRUCTION. ALL INFORMATION SHALL BE SUPPLIED TO THE ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS TO VERIFY EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDINGS, DUMPSTER ENCLOSURE, DUMPSTER PADS, ROOF DRAINS, UTILITY SERVICE POINT CONNECTIONS, RAISED CONCRETE SIDEWALKS, AND RAMPS. NOTIFY THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER PRIOR TO BIDDING.
- THE CONTRACTOR SHALL VERIFY AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED TO PERFORM ALL REQUIRED WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, OBTAIN ALL LICENSES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH UTILITY COMPANIES TO OBTAIN TEMPORARY POWER AND TELEPHONE SERVICE DURING CONSTRUCTION. ALL COST FOR TEMPORARY SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SUBGRADE DENSITY SHALL BE TESTED BY A PRIVATE SOILS TESTING FIRM AND APPROVED BY THE SOILS ENGINEER PRIOR TO INSTALLING BASE COURSE OR CONCRETE. BASE COURSE DENSITY SHALL ALSO BE TESTED BY THE PRIVATE SOILS FIRM AND APPROVED BY THE SOILS ENGINEER PRIOR TO INSTALLING PAVEMENT.
- AGGREGATES AND BITUMINOUS PAVEMENT MATERIAL AND INSTALLATION SPECIFICATIONS SHALL BE IN ACCORDANCE WITH STATE DOT SPECS. THE CONTRACTOR SHALL SUBMIT AGGREGATE SIEVE ANALYSIS AND A JOB-MIX FORMULA FOR THE BITUMINOUS PAVEMENT TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO THE PLACEMENT OF BITUMINOUS PAVEMENTS.
- ALL CONSTRUCTION SHALL BE CONDUCTED SUCH THAT THERE WILL BE MINIMAL INTERFERENCE WITH STREETS, DRIVES OR WALKS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC. DO NOT CLOSE OR OBSTRUCT STREETS, DRIVES OR WALKS OR USER FACILITIES WITHOUT WRITTEN PERMISSION FROM THE RESPECTIVE AGENCY HAVING JURISDICTION.

- ADVANCE COORDINATION BY THE CONTRACTOR WITH ALL UTILITY COMPANIES INVOLVED SHALL BE REQUIRED FOR ANY SERVICE INTERRUPTIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, LOCAL MUNICIPALITY AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF CONDITIONS ARE ENCOUNTERED DURING THE CONSTRUCTION PROCESS WHICH INDICATE AN UNIDENTIFIED SITUATION IS PRESENT OR DISCREPANCIES ARE FOUND THAT AFFECT WORK.
- CONTRACTOR SHALL NOTIFY THE ENGINEER, PROJECT MANAGER, MUNICIPAL BUILDING INSPECTION DEPARTMENT, AND UTILITY COMPANIES FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION. NO UTILITY TAPS SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION BY THE UTILITY COMPANY AND THE MUNICIPALITY.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ALL APPLICABLE UTILITY COMPANIES AND AGENCIES HAVING JURISDICTION WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- THE CONTRACTOR SHALL ARRANGE FOR AND OBTAIN ALL REQUIRED INSPECTIONS AND CONSTRUCTION APPROVALS.
- THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN, PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
- ELECTRONIC CADD FILES ARE AVAILABLE TO THE CONTRACTOR FOR THE PURPOSE OF LAYOUT. SUSTAINABILITY ENGINEERING GROUP, LLC CLAIMS NO RESPONSIBILITY WHATSOEVER FOR THE ELECTRONIC CADD FILES OR FOR INCORRECT INTERPRETATIONS ONCE TURNED OVER TO THE CONTRACTOR.

E. ON-SITE DOCUMENTATION

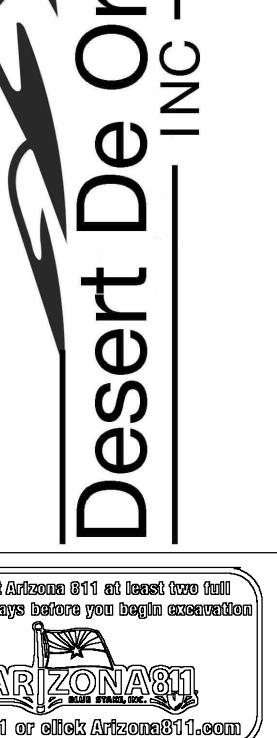
- CONTRACTOR SHALL HAVE A COPY OF APPROVED SOILS REPORTS FOR PAVEMENT DESIGN AND COMPACTION REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL RECOMMENDATIONS CONTAINED WITHIN THE SOILS REPORT.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED AT THE JOB SITE AT ALL TIMES. EACH SUBCONTRACTOR (INCLUDING THE SURVEYOR) SHALL HAVE A SIGNED COPY OF THE PLANS AND THE APPROPRIATE STANDARDS AND SPECIFICATIONS IN HIS POSSESSION AT ALL TIMES WHEN IMPROVEMENTS ARE BEING INSTALLED.
- THE CONTRACTOR SHALL HAVE ONE (1) SET OF DRAWINGS ON SITE FOR RECORDING AS-BUILT INFORMATION. PROVIDE THE RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES AND ANY FIELD MODIFICATIONS FROM THE PLANS) TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
- A COPY OF APPLICABLE MUNICIPALITY, COUNTY, AND STATE CONSTRUCTION SPECIFICATIONS AND DETAILS SHALL BE KEPT ON SITE THROUGHOUT THE PROJECT.

F. GENERAL CONSTRUCTION ITEMS:

- IF APPLICABLE, THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN A METHOD APPROVED BY THE STATE DOT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETION OF INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR Dewatering TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND TO PERFORM REQUIRED COMPACTION OPERATIONS.
- PROTECT EXISTING TREES TO REMAIN WITH TEMPORARY FENCING PLACED AT THE DRIP LINE. NO GROUND DISTURBANCE OR STORAGE OF MATERIAL SHALL OCCUR WITHIN THE DRIP LINE LIMITS.
- CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCHMARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARKS, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
- TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB.
- UTILITY TRENCHES ARE TO BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES IN COMPLIANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
- PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED WITHIN PUBLIC RIGHT-OF-WAYS.
- CONTRACTOR SHALL KEEP EXISTING STREETS, ROADS AND DRIVES CLEAR OF DIRT, DEBRIS AND EQUIPMENT.
- PROMPTLY REMOVE ALL RUBBISH, TRASH, DEMOLITION DEBRIS, AND ORGANIC MATERIAL FROM THE LIMITS OF THE OWNER'S PROPERTY AND DISPOSE IN A LEGAL MANNER.
- THE CONTRACTOR SHALL RESTORE AT HIS EXPENSE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER AND THOSE HAVING JURISDICTION.
- PROVIDE A DESIGNATED AREA (TO BE APPROVED BY OWNER) FOR STORAGE OF EQUIPMENT AND PARKING OF THE REQUIRED EQUIPMENT. THIS AREA AS WELL AS THE ACTUAL JOB SITE SHALL BE ENCLOSED IN CHAIN LINK FENCING. A TRAFFIC LANE SHALL BE DESIGNATED FOR INGRESS AND EGRESS FROM THE WORK AREA. IF REQUIRED, FLAG MEN SHALL BE PROVIDED TO PROVIDE A SAFE AND EFFICIENT MOVEMENT OF VEHICLES. NO CHANGES TO THE WORK AREA OR TO THE AGREED TRAFFIC PATTERN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CONSTRUCTION MANAGER. THE CONSTRUCTION MANAGER WILL SECURE THE APPROVAL FOR SUCH CHANGES.



**SUSTAINABILITY
ENGINEERING
GROUP**



WHATABURGER AVONDALE

LOCATION

NEC N. 107TH AVE AND
W. McDowell Road

PROJECT

ISSUED FOR:

PERMITS

REVISION NO.:

DATE:

10/25/2022

DRAWN:

DS 10/21/2022

DESIGNED:

LR/DS 10/21/2022

QC:

SC 10/21/2022

FINAL QC:

LA 10/25/2022

PROJ. MGR.:

AF 10/25/2022

DATE:

10/25/2022

ISSUED FOR:

PERMITS

REVISION NO.:

DATE:

10/25/2022

JOB NO.:

201015

SHEET TITLE:

**ENGINEERS
GENERAL NOTES**

PAGE NO.:

2018

SHEET NO.:

C0.10

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

CITY OF AVONDALE:

SIGNING AND STRIPING GENERAL PLAN NOTES:

- THE CITY OF AVONDALE ENGINEERING DEPARTMENT SHALL BE NOTIFIED THREE (3) BUSINESS DAYS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK.
- UNLESS OTHERWISE SPECIFIED, ALL PAVEMENT MARKING AND TRAFFIC CONTROL SIGNING INSTALLATIONS AND REMOVALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CITY OF AVONDALE "CONSTRUCTION SPECIFICATIONS SECTION XI. ITEMS NOT COVERED UNDER THE CITY SPECIFICATIONS SHALL CONFORM TO THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) STANDARD DRAWINGS, DETAILS AND SPECIFICATIONS OR THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) LATEST EDITION, AS APPLICABLE. SIGN REQUIREMENTS, GUIDELINES, AND WARRANTIES SHALL BE IN ACCORDANCE WITH THE MUTCD MOST RECENT EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. PAVEMENT MARKING DIMENSIONS ARE TO THE CENTER OF THE STRIPE FOR SINGLE LINE STRIPING, AND TO THE CENTER OF THE SPACE BETWEEN THE TWO LINES FOR DOUBLE LINE STRIPING. WHERE CURB AND GUTTER ARE PRESENT, DIMENSIONS ARE TO THE BACK OF THE CURB. THE CONTRACTOR SHALL SCHEDULE INSPECTION OF THE PAVEMENT MARKING LAYOUT AT LEAST THREE (3) BUSINESS DAYS PRIOR TO LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKING. INSPECTION SHALL TAKE PLACE DURING DAYTIME AND ON A BUSINESS DAY PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
- PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, NOTES, DETAILS AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS AND MARKERS.
- TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE MOST RECENT EDITION OF THE CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL," THE "MUTCD," AND/OR AS DIRECTED BY THE CITY OF AVONDALE.
- UNLESS OTHERWISE DIRECTED, ALL FINAL LOCATION LANE STRIPING INCLUDING CROSSWALKS AND STOP BARS SHALL BE THERMOPLASTIC MATERIAL APPLIED AT A MINIMUM THICKNESS OF 60 MIL. ALL PAVEMENT SYMBOLS, ARROWS, AND LETTERING SHALL BE THERMOPLASTIC, TYPE I (PERMANENT) PREFORMED PAVEMENT MARKINGS. TEMPORARY PAVEMENT MARKINGS SHALL BE REFLECTORIZED TRAFFIC PAINT. TEMPORARY STRIPING OF A HALF STREET ROADWAY SHALL BE THERMOPLASTIC.
- ALL SIGNS SHALL CONFORM TO THE MUTCD AND SHALL BE MADE FROM .080 INCH THICK ALUMINUM. SIGN POSTS AND EXTENSIONS SHALL BE GALVANIZED SQUARE PERFORATED STEEL TUBING PER CITY STANDARDS. HEIGHT REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE MUTCD.
- ALL TRAFFIC CONTROL SIGN FACES SHALL BE CONSTRUCTED OF DIAMOND GRADE REFLECTIVE SHEETING SUCH AS 3M STANDARD, UNLESS OTHERWISE NOTED.
- ALL SIGNS SHALL HAVE A MINIMUM CLEARANCE FROM THE EDGE OF THE SIGN TO THE FACE OF THE CURB OF AT LEAST TWO (2) FEET. IF NO CURB EXISTS, THE MINIMUM CLEARANCE SHALL BE AT LEAST TEN (10) FEET FROM THE EDGE OF THE PAVEMENT. ALL SIGNS SHALL BE PLACED SO AS TO NOT INTERFERE WITH PEDESTRIAN MOVEMENT.
- ANY TRAFFIC CONTROL SIGNAGE, INCLUDING STREET NAME SIGNS, WHICH MAY BE LOCATED WITHIN TEN (10) FEET OF AN EXISTING STREET LIGHT POLE, MAY BE PROPERLY MOUNTED TO THE POLE WITH APPROVAL FROM THE CITY. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TO IMPROVE VISIBILITY.
- ALL CONCRETE MEDIAN CURB NOSES SHALL BE PAINTED WITH YELLOW REFLECTIVE SAFETY PAINT FROM THE FRONT OF THE BULLNOSE BACK TEN (10) FEET.
- RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON ARTERIAL ROADWAYS WITH EXISTING RPMS OR ROADWAYS WITHOUT FULL STREET LIGHTING. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH ADOT STANDARD DRAWINGS 4-M-2.02, 4-M-2.03.1, 4-M-2.03.2, AND 4-M-2.04. TWO-WAY TYPE M RAISED PAVEMENT MARKERS SHALL BE INSTALLED ADJACENT TO FIRE HYDRANTS PER CITY OF AVONDALE STANDARDS.
- ANY EXISTING SIGNAGE THAT IS REQUIRED TO BE RELOCATED BY THE CONTRACTOR SHALL BE REMOVED, PROTECTED, AND STORED FOR REINSTALLATION BY THE CONTRACTOR. DAMAGED SIGNAGE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY EXISTING SIGNS REQUIRED TO BE PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS AND STRIPING IN CONFLICT WITH THE FINAL STRIPING PLAN BY ULTRA HIGH-PRESSURE WATER (36,000 PSI PER MAG SPECIFICATIONS). ALL REMOVAL METHODS SHALL BE DONE IN CONFORMANCE WITH EPA REQUIREMENTS. IF THE REMOVAL OF STRIPING CAUSES A DEPRESSION OF 1/8 INCH OR GREATER IN THE PAVEMENT SURFACE, THE CONTRACTOR SHALL FILL AND SLURRY SEAL THE AREA PER MAG STANDARD SPECIFICATION 713 & 715, TYPE II.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE CITY BY POWER BROOM, STREET SWEEPING, AIR JET BLOWING, AND/OR WATER JET/TRUCK PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROAD PAVEMENT SURFACE SHALL BE ABSOLUTELY DRY. THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 55° F AND 61° F FOR THE PLACEMENT OF THERMOPLASTIC MARKING AND TYPE I MARKING TAPE, RESPECTIVELY.
- STREET NAME SIGNS LOCATED AT ALL INTERSECTIONS SHALL HAVE BLOCK NUMBERS. BLOCK NUMBERS SHALL BE ASSIGNED BY THE CITY'S BUILDING DIVISION. BLOCK NUMBERS SHALL BE INSTALLED PER CITY SPECIFICATIONS.



THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

SUSTAINABILITY
ENGINEERING
GROUPDesert De Oro Foods
INC8280 E. GELDING DRIVE SUITE 101 SCOTTSDALE, ARIZONA 85260
WWW.AZSEG.COM TEL: 480.588.7226 FAX: 480.589.3534

PROJECT	WHATABURGER AVONDALE
LOCATION	N.E.C. N. 107TH AVE AND W. McDOWELL ROAD
DRAWN	DS 10/21/2022
DESIGNED	LR/DS 10/21/2022
QC	SC 10/21/2022
FINAL QC	LA 10/25/2022
PROJ. MGR.	AF 10/25/2022

DATE:
10/25/2022ISSUED FOR:
PERMITS

REVISION NO.: DATE:

△	△
△	△
△	△
△	△

JOB NO.: 201015

SHEET TITLE:

CITY OF AVONDALE
GENERAL NOTESPAGE NO.: SHEET NO.:
30 OF 18 CO.11

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

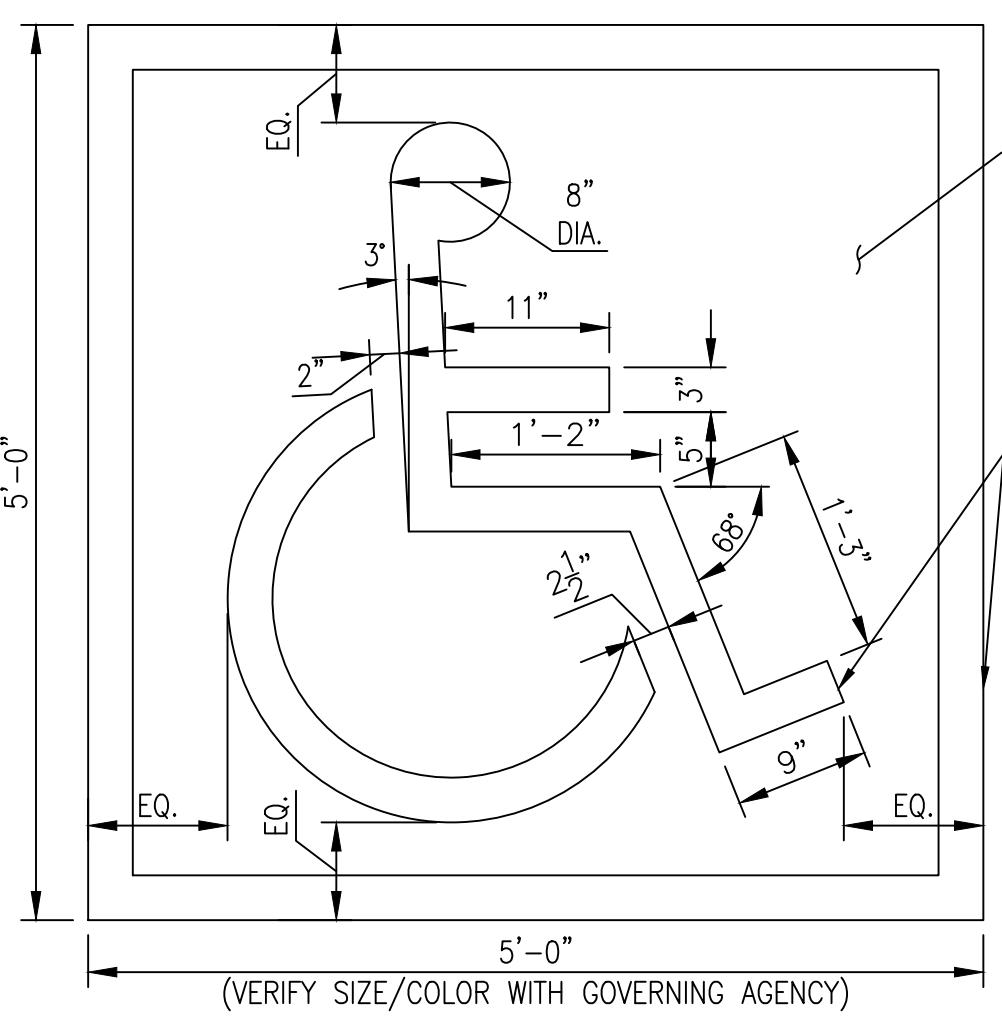


SUSTAINABILITY ENGINEERING GROUP

820 E. GELDING DRIVE SUITE 101, SCOTTSDALE, ARIZONA 85260
WWW.AZSEG.COM TEL: 480-388-7226 FAX: 480-389-3534

Desert De Oro Foods INC

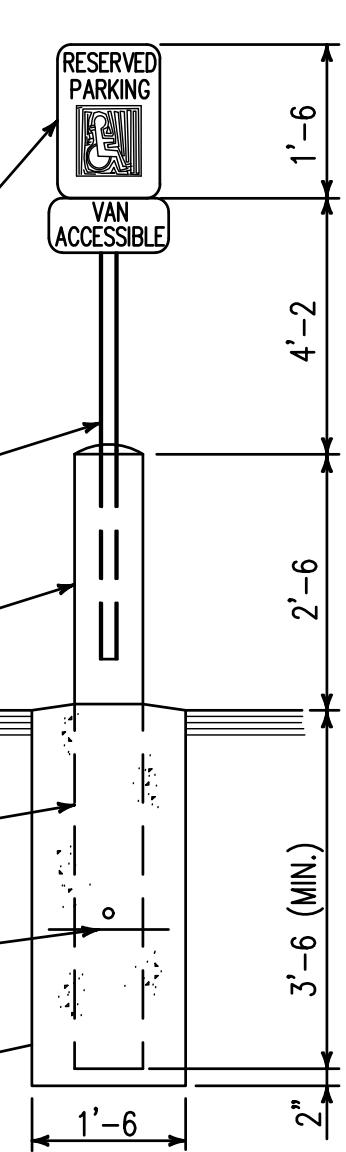
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.



1'-0 x 1'-6 x .080 ALUMINUM
ADA PARKING SIGN.
ALLSTATE SIGN AND PLAQUE CORP.,
1-800-645-6330; OR ACCEPTED EQUAL:
NO. 5-MI1218 OR W-ES120
(VAN ACCESSIBLE); AT LOCATIONS
SHOWN ON PLANS; NON-REFLECTIVE,
BOLT TO STEEL TUBE W/ CADMIUM
PLATED BOLTS, NUTS & WASHERS

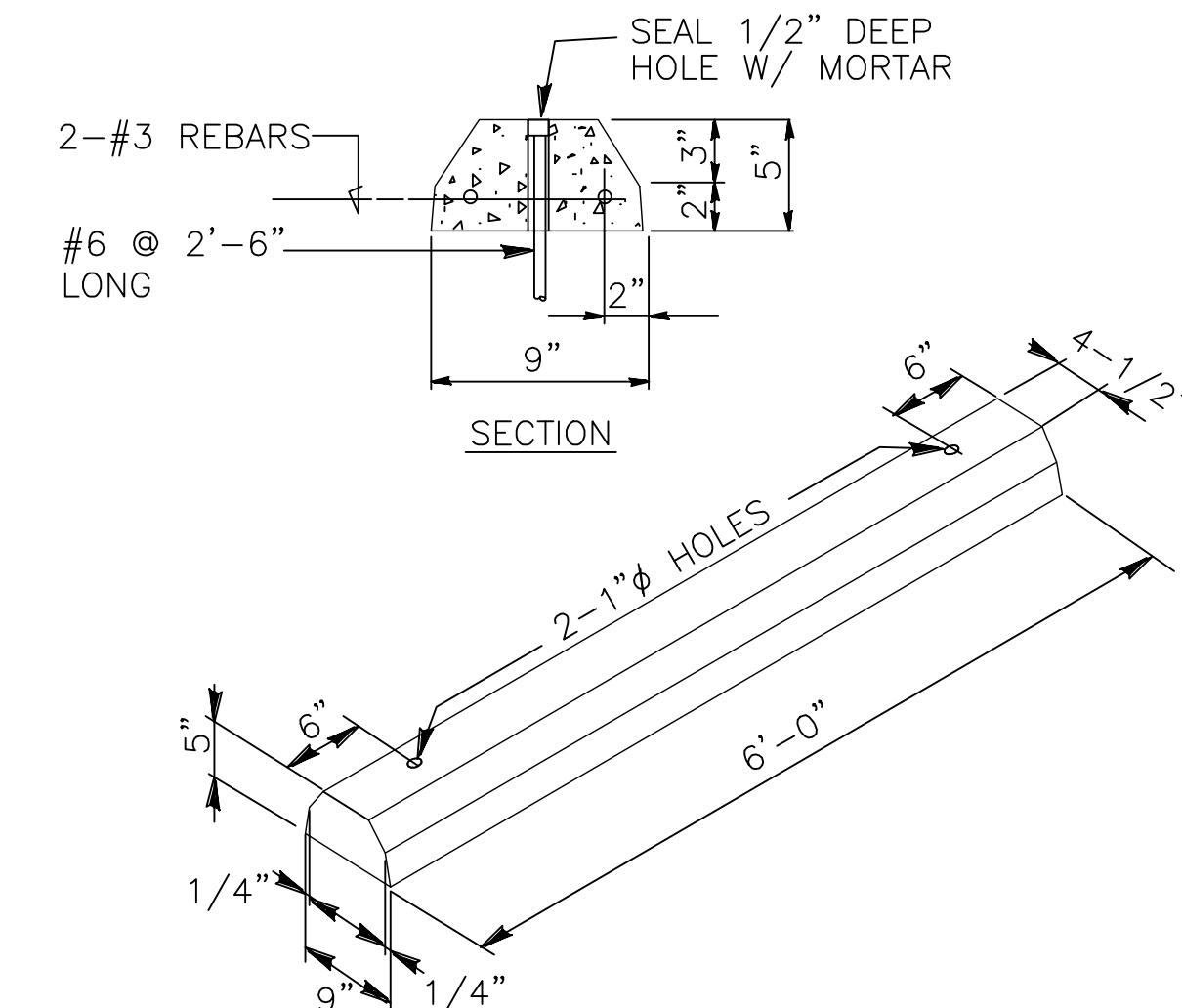
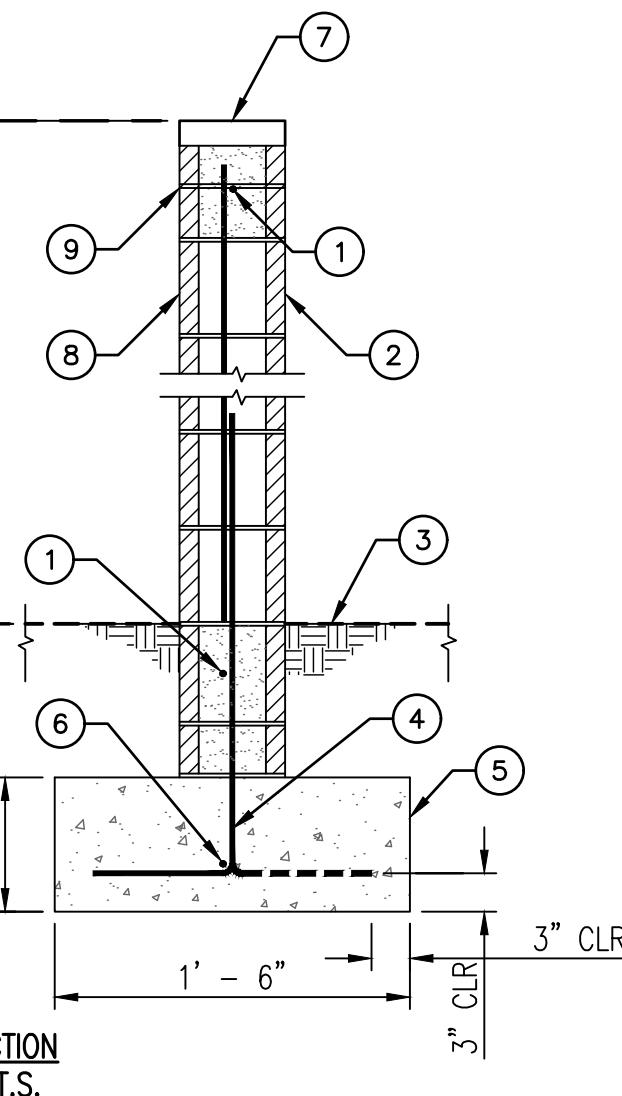
2" X 2" X .188" STEEL
TUBE EXTEND INTO
CONC. FILLED PIPE 2'-0
PROVIDE WELDED WATER-TIGHT
CAP PAINT P&L #6118
BLACK COFFEE

Pipe Base
Pavement
8" STD. STEEL PIPE
FILLED W/ CONC.
#6-14" LONG BARS
EA WAY THRU PIPE
1'-6" CONC. BASE



KEY NOTES:

- 1 #4 IN CONTINUOUS 8" DEEP GROUTED BOND BEAM
- 2 8" MASONRY WALL WITH #4 VERTICALS AT 48" O.C.
- 3 FINISHED GRADE
- 4 DOWELS TO MATCH AND LAP VERTICAL WALL REINFORCING – ALTERNATE BENDS
- 5 CONCRETE FOOTING
- 6 1 #5 CONTINUOUS
- 7 2" SMOOTH CAP BLOCK.
- 8 PAINT TO MATCH BUILDING. (BOTH SIDES).
- 9 8"x4"x16" SMOOTH FACE CMU ACCENT BAND
- 10 VERTICAL CONTROL JOINT – 20' O.C. MAX



SYMBOL OF ACCESSIBILITY



1

ACCESSIBLE PARKING SIGN



2

3' MASONRY SCREEN WALL AND FOOTING

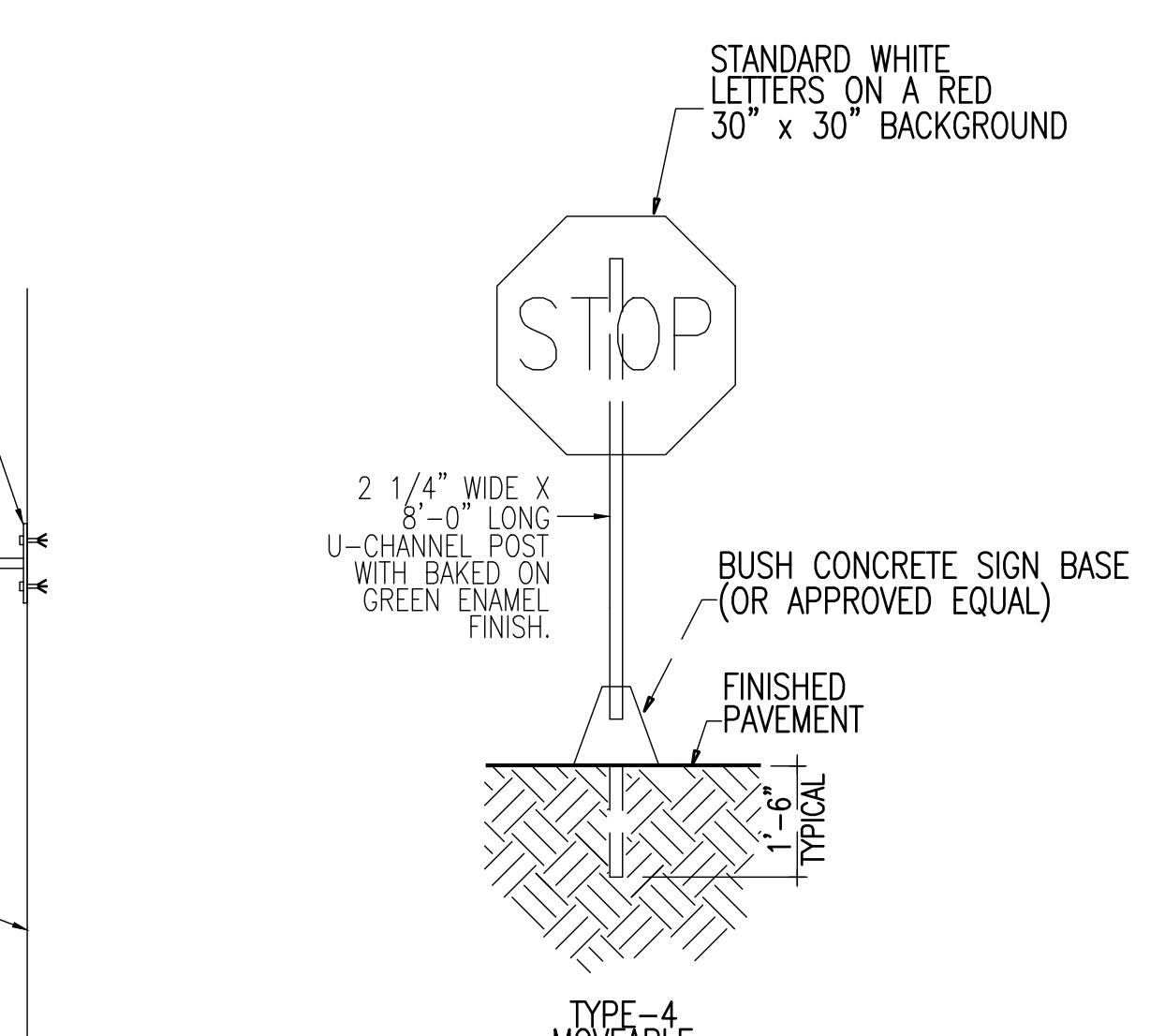
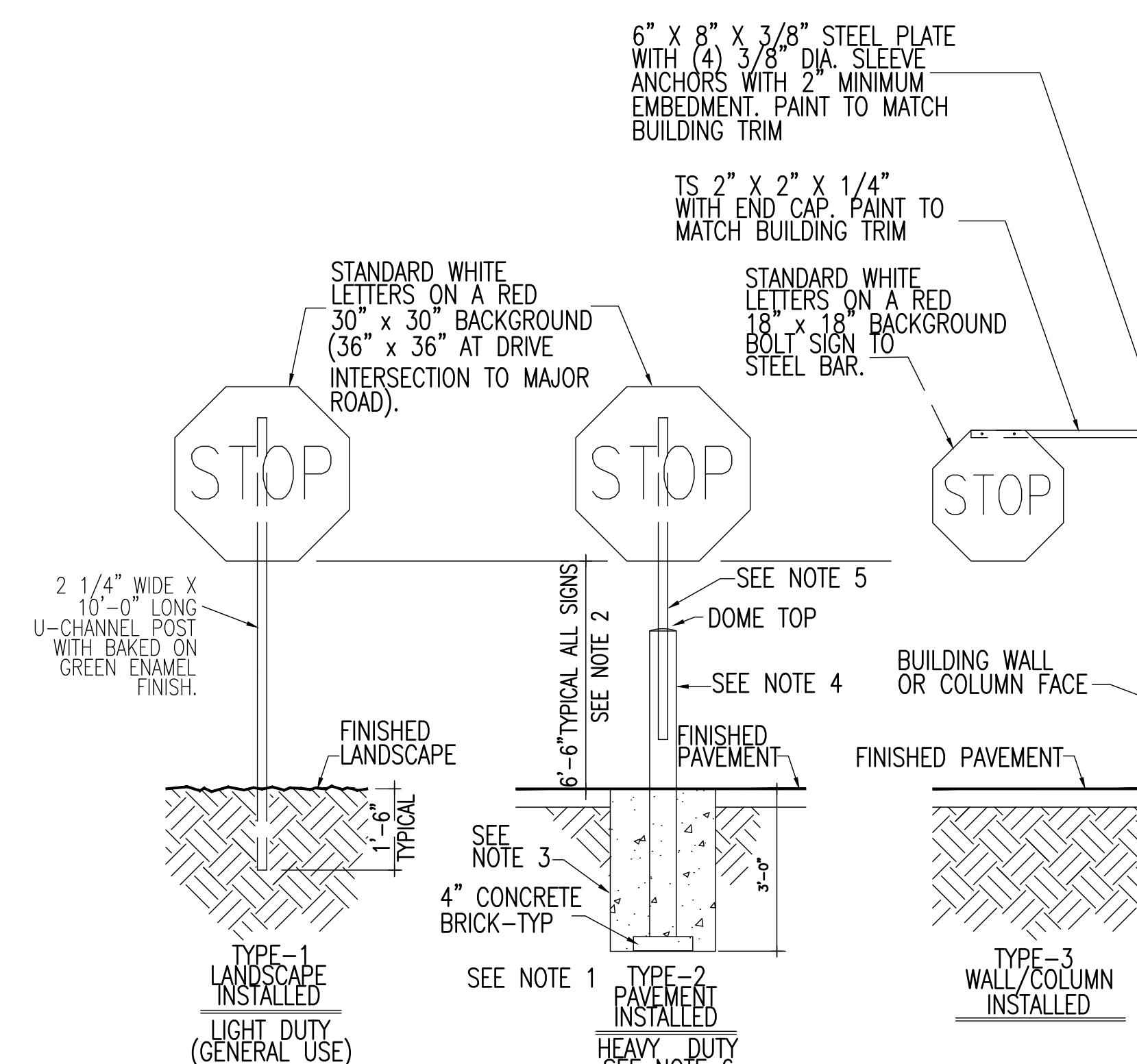
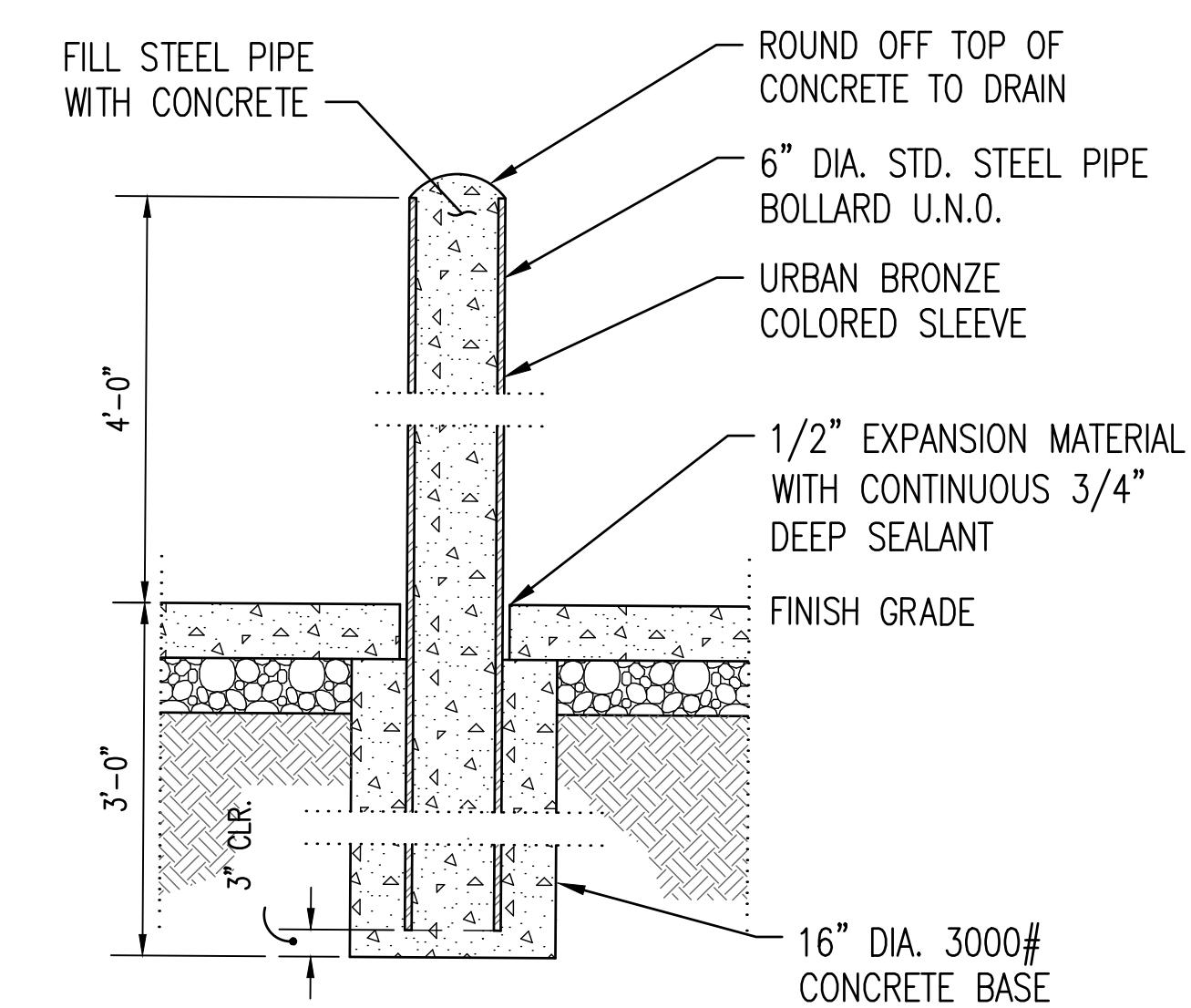
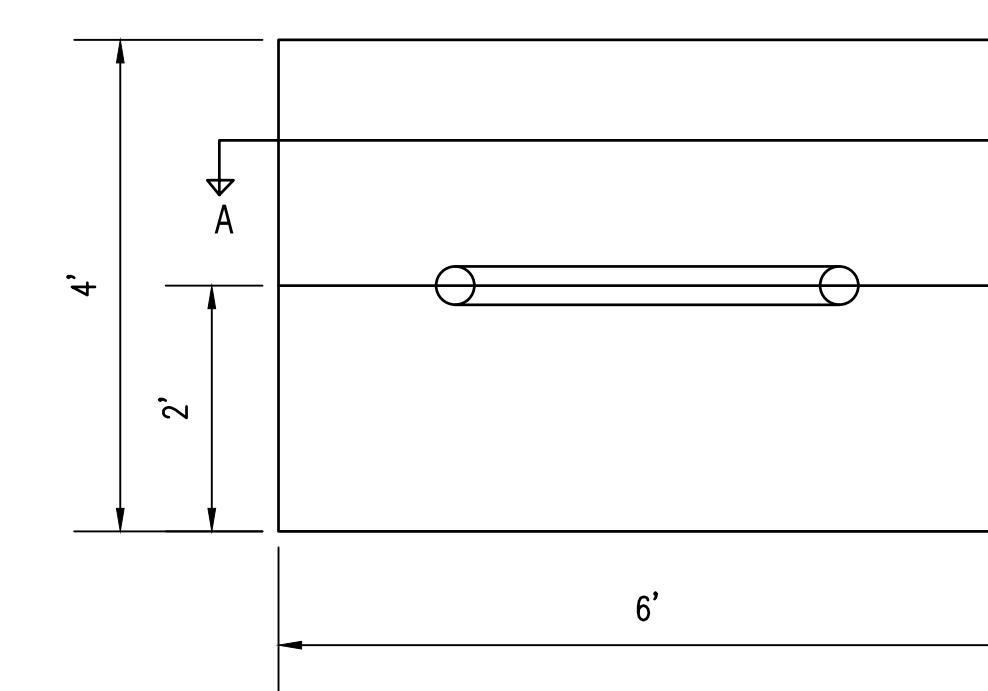
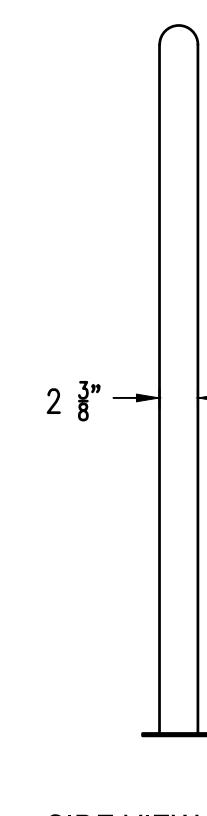
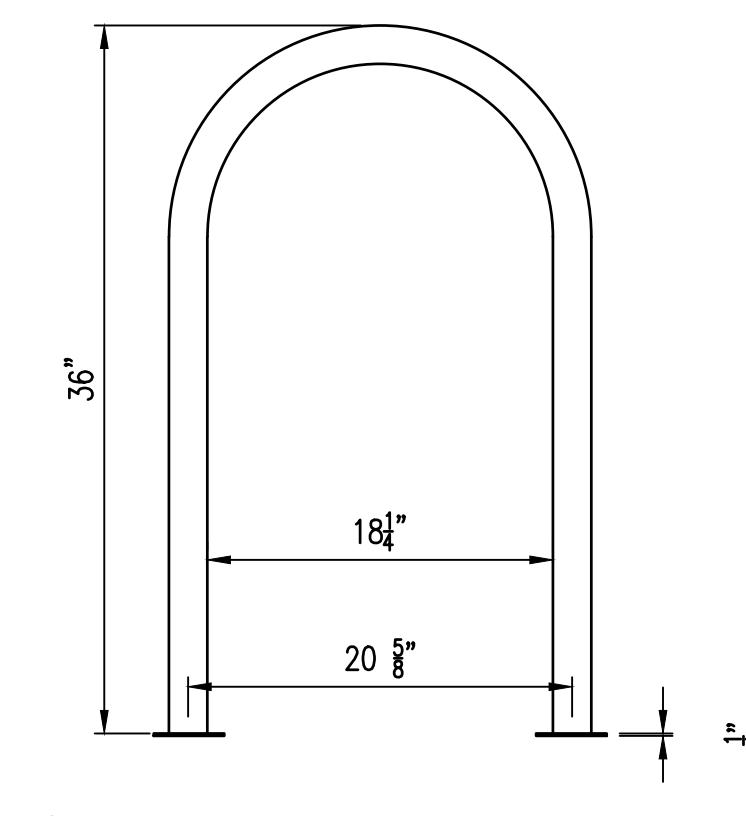


3

PRECAST CONCRETE WHEEL STOP



4



NOTES:

1. INSTALL ALL SIGNS WHERE INDICATED ON SITE PLAN OR PER THE MUNICIPALITY SIGNAGE REQUIREMENTS.
2. ADJUST MOUNTING HEIGHTS TO MEET LOCAL CODES WHERE APPLICABLE.
3. SET ALL POSTS IN 16" DIAMETER X 36" DEEP CONCRETE FOUNDATION.
4. 4" X 6'-0" CONCRETE FILLED SCHEDULE 40 STEEL POST CENTERED IN FOUNDATION, PAINTED YELLOW, SEE SPECS.
5. 2 1/4" WIDE X 6'-0" LONG U-CHANNEL POST WITH BAKED ON GREEN ENAMEL FINISH.
6. LIGHT DUTY – LANDSCAPED AREAS AND AREAS NOT SUBJECT TO VEHICULAR TRAFFIC. HEAVY DUTY – PAVED AREAS AND AREAS SUBJECT TO VEHICULAR TRAFFIC OR NOT PROTECTED IN LANDSCAPED AREAS.

NOTE:
REFER TO SITE PLAN FOR NUMBER
OF SPACES

BICYCLE RACK



5

STEEL PIPE BOLLARD IN CONCRETE



6

STOP SIGN



7

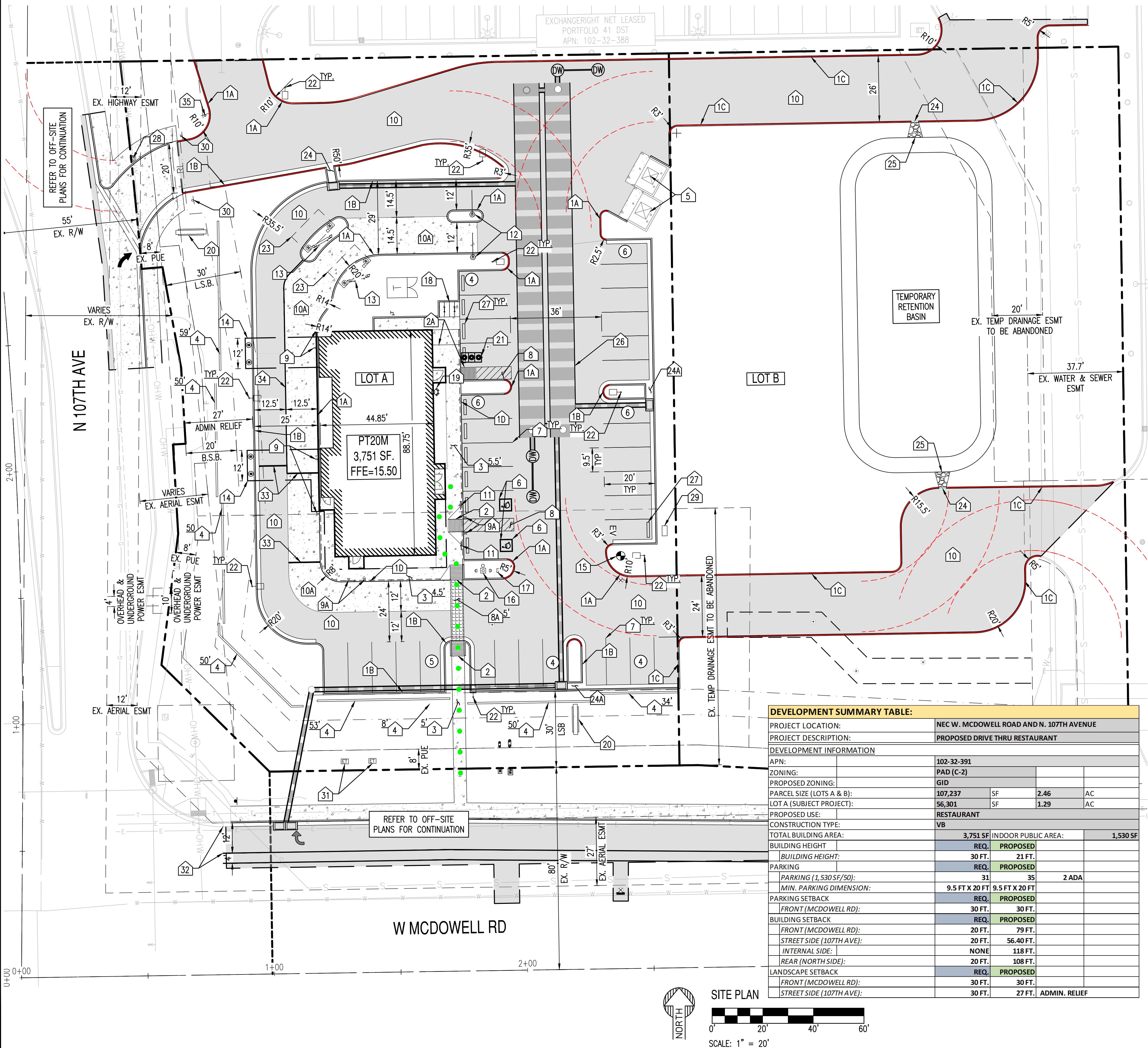
PAGE NO.:	SHEET NO.:
6 OF 18	C2.10

PROJECT	WHATABURGER AVONDALE
LOCATION	NEC N. 107TH AVE AND W. McDowell Road
DRAWN	DS 10/21/2022
DESIGNED	LR/DS 10/21/2022
QC	SC 10/21/2022
FINAL QC	LA 10/25/2022
PROJ. MGR.	AF 10/25/2022
DATE:	10/25/2022
ISSUED FOR:	PERMITS
REVISION NO.:	
JOB NO.:	201015
SHEET TITLE:	
SITE PLAN DETAILS	
PAGE NO.:	SHEET NO.:

WHATABURGER AVONDALE

SITE PLAN

NEC McDOWELL RD & 107TH AVE, AVONDALE, ARIZONA.
A PORTION OF THE SOUTHWEST QUARTER OF SECTION 32, TOWNSHIP 2 NORTH, RANGE 1
EAST, OF GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA



SITE PLAN KEYNOTES:

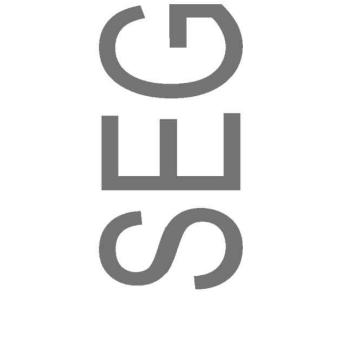
- 1A** 6" VERTICAL CURB PER GRADING PLANS.
 - 1B** 6" CURB AND GUTTER PER GRADING PLANS.
 - 1C** 6" EXTRUDED CURB PER GRADING PLANS.
 - 1D** TURNDOWN SLAB PER GRADING PLANS.
 - 2** ACCESSIBLE RAMP PER GRADING PLANS.
 - 2A** LOADING ZONE RAMP PER GRADING PLANS.
 - 3** CONCRETE SIDEWALK PER MAG STD. DET 230, WIDTH PER PLAN.
 - 4** PROVIDE 3' SCREEN WALL PER DET 3/C2.10. LENGTH PER PLAN.
 - 5** CONSTRUCT TRASH ENCLOSURE PER ARCH. PLANS, SEE SHEET A6.6
 - 6** PROVIDE PAINTED ADA SYMBOL PER DET 1/C2.10.
 - 7** PROVIDE 4" WIDE WHITE PAINTED STRIPING, TYP.
 - 8** PROVIDE 5' WIDE PEDESTRIAN PATHWAY WITH 4" WIDE YELLOW PAINT, AT 45° 2 FEET O.C.
 - 8A** PROVIDE CONCRETE WITH BROOM FINISH AT PEDESTRIAN CROSSING.
 - 9** INSTALL 6" STEEL BOLLARDS PER DET. 6/C2.20.
 - 9A** INSTALL 6" LIT STEEL BOLLARDS PER ARCHITECTURAL PLANS.
 - 10** PROVIDE HEAVY DUTY ASPHALT PAVEMENT PER CIVIL PLANS.
 - 10A** PROVIDE CONCRETE PAVEMENT PER GRADING PLANS FOR JOINT LAYOUT PLAN FOR CONCRETE PAVEMENT AND SIDEWALKS.
 - 11** INSTALL ACCESSIBLE PARKING SIGN PER DET. 2/C2.10.
 - 12** INSTALL DRIVE-THRU CLEARANCE BAR PER ARCHITECTURAL PLANS.
 - 13** INSTALL DRIVE-THRU MENU BOARD. PER DETAIL 6/C2.10.
 - 14** RESTAURANT CANOPY PER ARCHITECTURAL PLANS. WIDTH PER PLAN.
 - 15** PROPOSED FIRE HYDRANT.
 - 16** INSTALL 28' HIGH FLAG POLE.
 - 17** INSTALL FREE STANDING MAILBOX BY G.C.
 - 18** INSTALL BIKE RACK (4 SPACES). PER DET. 5/C2.10.
 - 19** PROPOSED FDC LOCATION.
 - 20** MONUMENT SIGN PER ARCH PLANS. (BY SEPARATE PERMIT).
 - 21** GREASE INTERCEPTOR BY BUILDING CONTRACTOR.
 - 22** LIGHT POLE PER ELECTRICAL PLANS.
 - 23** INSTALL MENU BOARD CANOPY PER ARCHITECTURAL PLANS.
 - 24** CURB OPENING PER GRADING PLANS.
 - 24A** CURB ISLAND OPENING PER GRADING PLANS.
 - 25** RIP-RAP PER GRADING PLANS.
 - 26** PROPOSED RETENTION BASIN PER GRADING PLANS.
 - 27** PROVIDE CONCRETE WHEEL STOP PER DET. 4/C2.10.
 - 28** EXISTING 69KV POWER POLE TO BE RELOCATED PER SRP REDESIGN.
 - 29** EV CHARGING STATION TBD.
 - 30** INSTALL NO EXIT SIGN
 - 31** RELOCATED ELECTRIC TRANSFORMER
 - 32** PROVIDE DEDICATED RIGHT TURN LANE AND BICYCLE LANE PER OFF-SITE PAVING AND DRAINAGE PLANS.
 - 33** PROVIDE STOP LINE WITH 12" WIDE WHITE PAINT.
 - 34** PROVIDE DIVIDING LINE WITH 4" WIDE YELLOW PAINT.
 - 35** INSTALL NO EXIT SIGN PER DET. 7/C2.10.

PROPOSED LEGEND:

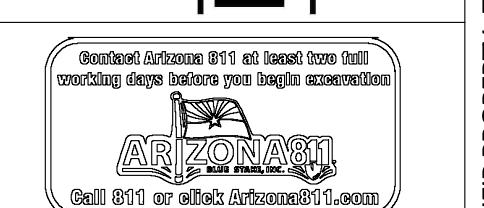
- | | |
|--|------------------------------------|
| | PROPERTY LINE |
| | VERTICAL CURB |
| | CURB AND GUTTER |
| | RED PAINTED CURB
(NO PARKING) |
| | PARKING COUNT |
| | PAVEMENT STRIPING |
| | FIRE HYDRANT |
| | TRANSFORMER |
| | CONCRETE
PAVEMENT/SIDEWALK |
| | HEAVY DUTY PAVEMENT |
| | CONCRETE WITH BROOM
FINISH |
| | ACCESSIBLE PEDESTRIAN
PATH |
| | 35'/55' FIRE ACCESS
TURN RADIUS |

SITE PLAN NOTES

1. DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
 2. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
 3. ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
 4. ALL ROOFTOP EQUIPMENT AND SATELLITE DISHES SHALL BE SCREENED TO THE HEIGHT OF THE TALLEST EQUIPMENT.
 5. ALL SERVICE AREAS SHALL BE SCREENED TO CONCEAL TRASH CONTAINERS, LOADING DOCKS, TRANSFORMERS, BACKFLOW PREVENTERS AND OTHER MECHANICAL OR ELECTRICAL EQUIPMENT FROM EYE LEVEL ADJACENT TO ALL PUBLIC STREETS.
 6. IF APPLICABLE, PEDESTRIAN ACCESS ROUTES ARE PROVIDED IN COMPLIANCE WITH THE LATEST ADA STANDARDS. ALL RAMPS MUST MEET ADA ACCESSIBILITY GUIDELINES (ADAAG) STANDARDS, 2% MAX CROSS SLOPES, AND 5% MAXIMUM LONGITUDINAL SLOPES. TRUNCATED DOMES, AS DETECTABLE WARNINGS, ARE REQUIRED, AS SHOWN IN PLANS, ON ALL SITE RAMPS AND WALKS THAT CROSS A VEHICULAR WAY PER ADAAG CHAPTER 7.
 7. PIPE BOLLARDS SHALL BE INSTALLED IN TRAFFIC AND LOADING AREAS AS REQUIRED TO PROTECT BUILDING CORNERS, RECEIVING AREAS, HYDRANTS, TRANSFORMERS, METERS, GENERATORS, COMPACTORS, STEPS, AND RAILINGS, AS NECESSARY.
 8. ALL SIGNAGE REQUIRES SEPARATE APPROVAL AND PERMITS.
 9. A MINIMUM 6-FOOT HORIZONTAL SEPARATION BETWEEN WATER AND SEWER PIPELINES WILL BE MAINTAINED.
 10. OWNERS OF PROPERTY ADJACENT TO THE PUBLIC RIGHT-OF-WAY WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING WITHIN THE RIGHT-OF-WAY IN ACCORDANCE WITH APPROVED PLANS.
 11. CURBS AND SCREEN WALL TO BE COORDINATED WITH UNDERGROUND STORAGE RISERS, PENDING DECISIONS ON SYSTEM REMOVAL.



The logo for Desert De Oro Foods features a stylized graphic of a desert landscape with mountains and a river, positioned above the company name. The name "Desert De Oro Foods" is written in a bold, sans-serif font, with "INC" in smaller letters below "Foods".



WHATABURGER AVONDALE		LOCATION	NEC N. 107TH AVE AND W. McDOWELL ROAD
N	_____	DS	10/21/2022
NED	_____	LR/DS	10/21/2022
QC	_____	SC	10/21/2022
MCR.	_____	LA	10/25/2022
	_____	AF	10/25/2022
10/25/2022			
FOR:			
PERMITS			
N NO.:		DATE:	
201015			
TITLE:			
SITE PLAN			
O.:	SHEET NO.:		
OF 18	C2.00		



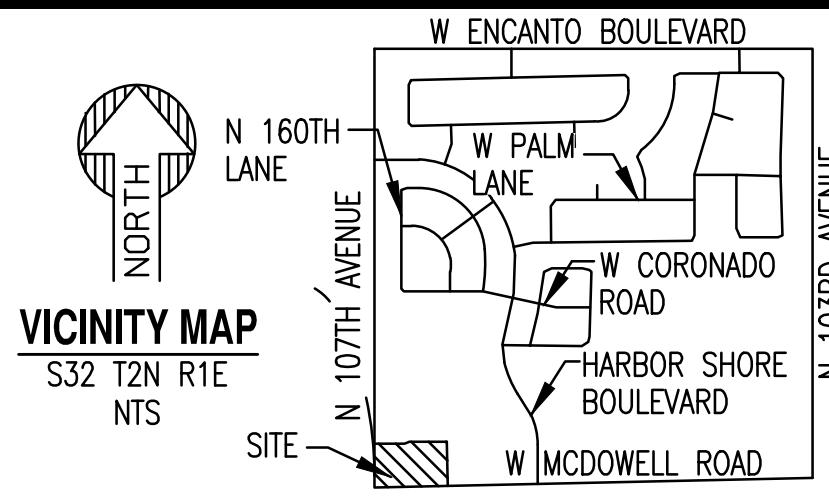
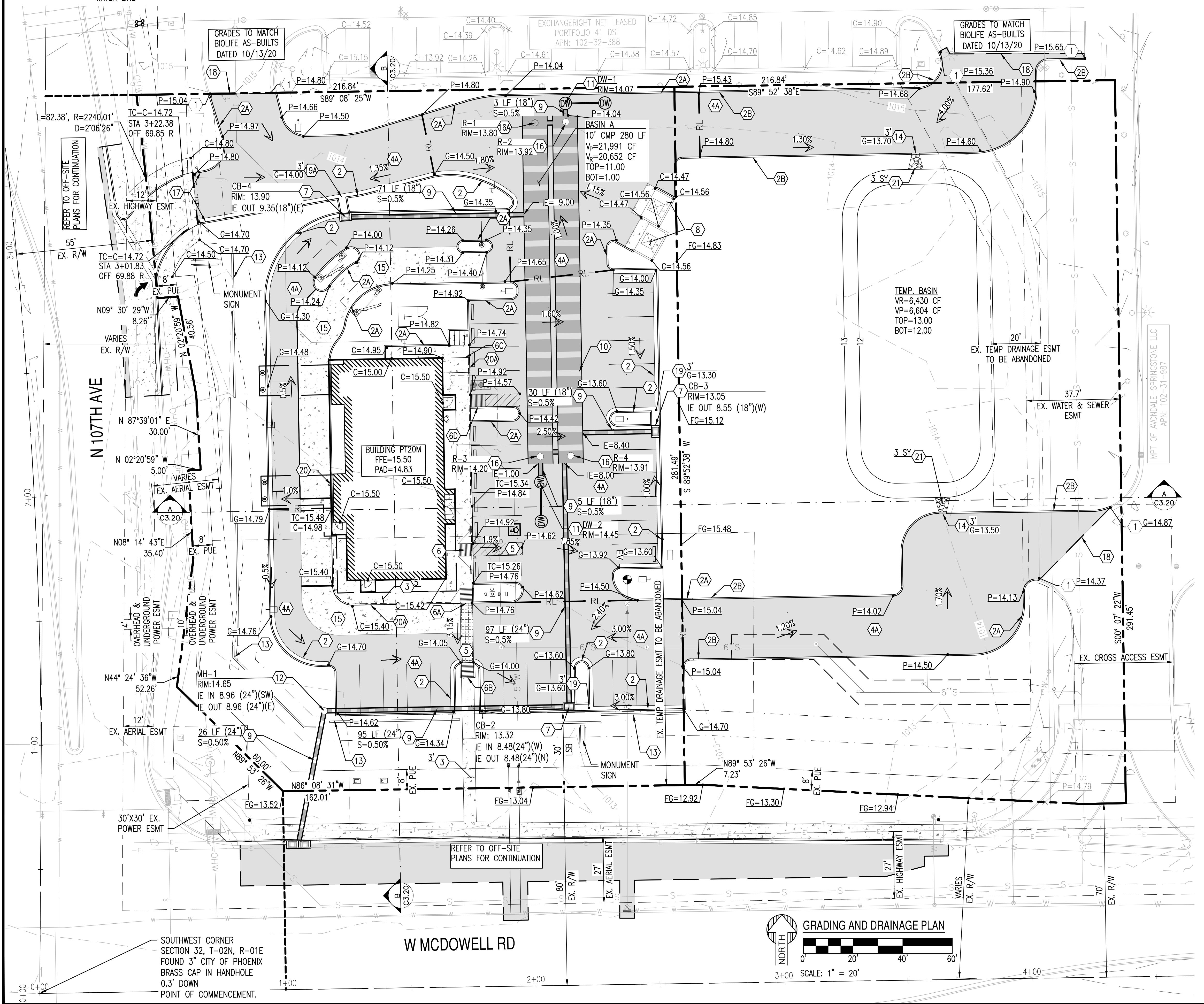
WHATABURGER AVONDALE

GRADING AND DRAINAGE PLAN

NEC McDowell Rd & 107th Ave, Avondale, Arizona.

A PORTION OF THE SOUTHWEST QUARTER OF SECTION 32, TOWNSHIP 2 NORTH, RANGE 1 EAST, OF GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

XXXX	EX. MAJOR CONTOURS
XXX	EX. MINOR CONTOURS
TC:XX GE:XX	EX. SPOT ELEVATION
EASEMENT LINE AS NOTED	WATER VALVE
EX. S	FIRE HYDRANT
SEWER LINE	GAS LINE
SEWER MANHOLE	SIGN
EX. W	STREET LIGHT
WATER LINE	TREE
	ROAD CENTERLINE



GRADING CONSTRUCTION KEY NOTES

- ① MATCH EXISTING GRADE; CONTRACTOR TO VERIFY IN FIELD ALL GRADES PRIOR TO CONSTRUCTION ACTIVITIES AND CONTACT ENGINEER IN CASE OF ANY DISCREPANCIES.
- ② CONSTRUCT 6" CONCRETE CURB AND GUTTER PER MAG STD. DET. 220-1 TYPE "A".
- ②A CONSTRUCT 6" VERTICAL CURB PER MAG STD. DET. 222 TYPE "B".
- ②B CONSTRUCT EXTRUDED CURB PER DET. 3/C3.10.
- ③ CONSTRUCT CONCRETE SIDEWALK PER MAC STD. DET. 230. WIDTH PER PLAN.
- ④ CONSTRUCT HEAVY DUTY ASPHALT PAVEMENT PER DET. 4/C3.10.
- ⑤ CONSTRUCT PAVEMENT WITH 2% MAXIMUM SLOPE IN ANY DIRECTION AT ACCESSIBLE PARKING STALLS AND 2% MAXIMUM CROSS SLOPE AT ADA ACCESSIBLE ROUTE.
- ⑥ CONSTRUCT ADA ACCESSIBLE RAMP PER DET. 7/C3.10.
- ⑥A CONSTRUCT ADA ACCESSIBLE RAMP PER DET. 8/C3.10.
- ⑥B CONSTRUCT ADA ACCESSIBLE RAMP PER DET. 9/C3.10.
- ⑥C CONSTRUCT DELIVERY RAMP PER DET. 1/C3.10.
- ⑥D CONSTRUCT DELIVERY RAMP PER DET. 2/C3.10.
- ⑦ FURNISH AND INSTALL NYLOPLAST DRAIN BASIN WITH 30" RISER AND 2'X3' STEEL GRATE. PER DETAIL 16/C3.12 & 17/C3.12.
- ⑧ CONSTRUCT TRASH ENCLOSURE PER ARCH PLANS A1/A6.6.
- ⑨ FURNISH AND INSTALL HDPE DOUBLE WALL PIPE, CLASS 100; EXCAVATION, BEDDING, & BACKFILL PER MAG STD DET 601. PIPE MATERIAL PER MAG SPECIFICATION 738. LENGTH, SIZE AND SLOPE PER PLAN.
- ⑩ FURNISH AND INSTALL 14 GAGE POLYMER COATED 120" CMP STORMWATER STORAGE SYSTEM. PIPE MATERIAL PER MAG SPECIFICATION 621. LENGTH AND SLOPE PER PLAN. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO MANUFACTURING.
- ⑪ FURNISH AND INSTALL MAXWELL PLUS DRYWELL. REFER TO SHEET C3.12 FOR DETAIL. NOTE: CONTRACTOR TO HAVE A PERCOLATION TEST DONE ON FIRST CONSTRUCTED DRYWELL AND PROVIDE RESULTS TO ENGINEER FOR DETERMINATION OF ULTIMATE NUMBER OF REQUIRED DRYWELLS.
- ⑫ FURNISH AND INSTALL 30" NYLOPLAST DRAIN BASIN WITH SOLID LID PER DETAIL 15/C3.12.
- ⑬ 3' SCREEN WALL. REFER TO SITE PLANS FOR DETAILS.
- ⑭ CONSTRUCT CURB OPENING. WIDTH PER PLAN.
- ⑮ CONSTRUCT CONCRETE PAVEMENT PER DETAIL 5/C3.10.
- ⑯ FURNISH AND INSTALL CMP RISER WITH VENTED SOLID LID, INCLUDING CONCRETE COLLAR, PER DETAIL 18/C3.13.
- ⑯A FURNISH AND INSTALL CMP RISER WITH STANDARD H-20 GRATE, INCLUDING CONCRETE COLLAR, PER DETAIL 18/C3.13.
- ⑰ CURB TRANSITION FROM 6" TO 0".
- ⑱ CONSTRUCT TRANSITION TO EXISTING PAVEMENT PER PAVEMENT JOINTING PLANS.
- ⑲ CONSTRUCT CURB ISLAND OPENING PER DETAIL 6/C3.10, WIDTH PER DETAIL.
- ⑲A CONSTRUCT CURB ISLAND OPENING PER DETAIL 14/C3.11, WIDTH PER DETAIL.
- ⑳ TURN DOWN SLAB PER DETAIL 12/C3.11.
- ㉑ TURN DOWN SIDEWALK PER DETAIL 13/C3.11.
- ㉒ FURNISH AND INSTALL RIP-RAP; D50=6", 12" DEPTH. DIMENSIONS PER PLAN. REFER TO DETAIL 11/C3.11.

SUSTAINABILITY
ENGINEERING
GROUP

8280 E. GELDING DRIVE SUITE 101 SCOTTSDALE, ARIZONA 85260
WWW.AZSEG.COM TEL: 480.589.7226 FAX: 480.589.3534

Desert De Oro Foods
INC

Arizona 911
Call 911 or visit Arizona911.com

PROPOSED GRADING LEGEND:

G=XX.XX	CATCH BASIN
P=XX.XX	STORM PIPE
C=XX.XX	DRYWELL
RL	NYLOPLAST BASIN
EX. R/W	WATER METER
EX. PUE	GATE VALVE
EX. AERIAL ESMT	FIRE HYDRANT
EX. POWER ESMT	SEWER MANHOLE
EX. UNDERGROUND ESMT	CURB AND GUTTER
EX. OVERHEAD & UNDERGROUND ESMT	CONCRETE PAVEMENT
EX. HIGHWAY ESMT	SAWCUT
EX. CROSS ACCESS ESMT	HEAVY DUTY PAVEMENT
EX. TEMP DRAINAGE ESMT TO BE ABANDONED	SETBACK
EX. TEMP DRAINAGE ESMT	LIGHT DUTY PAVEMENT

GRADING AND
DRAINAGE PLAN

PAGE NO.: 7 OF 18 SHEET NO.: C3.00





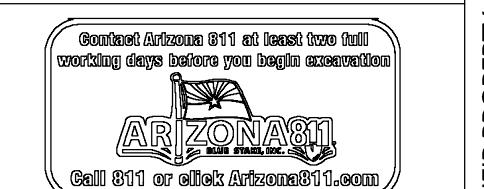
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

SUSTAINABILITY
ENGINEERING
GROUP

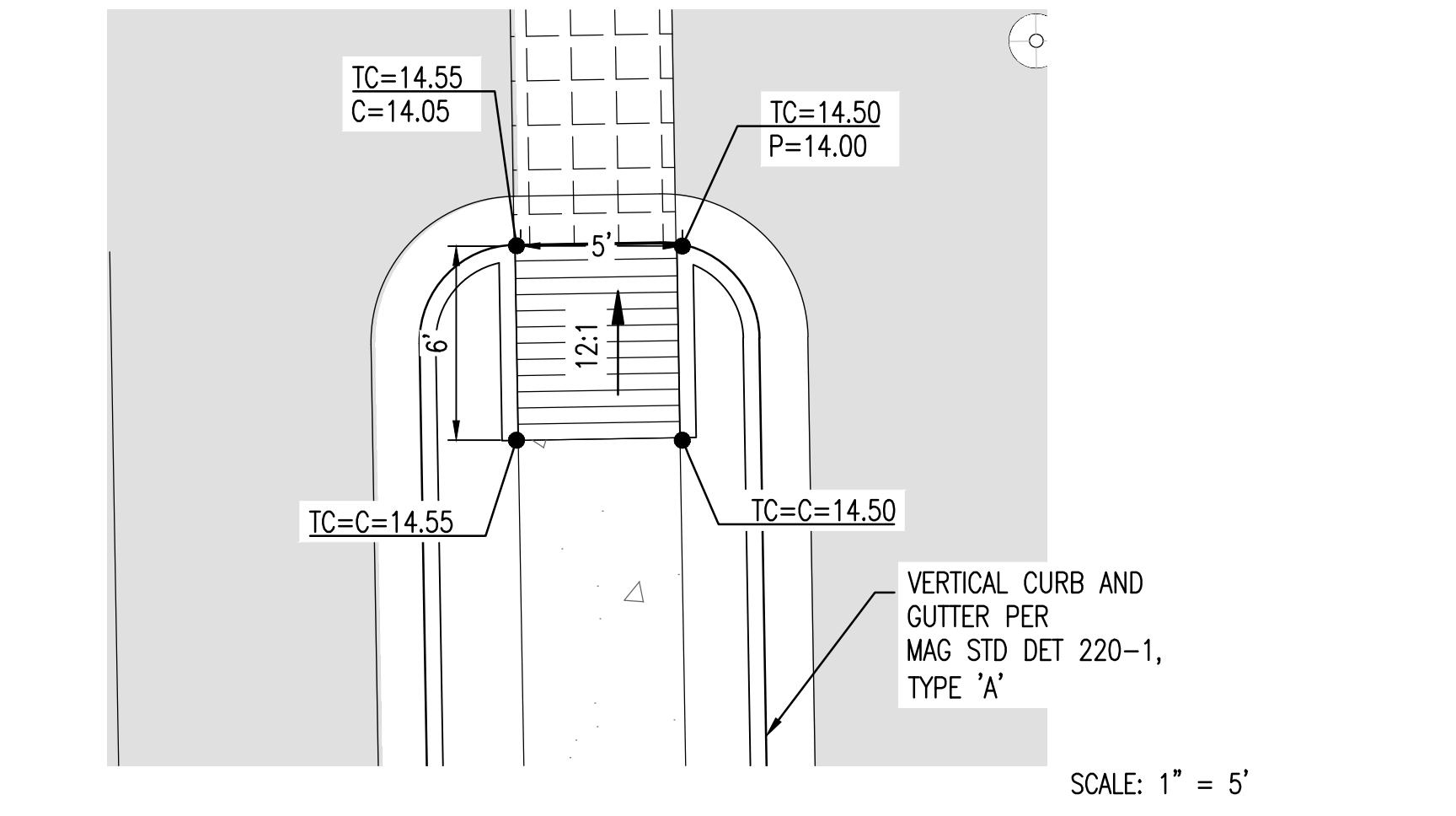
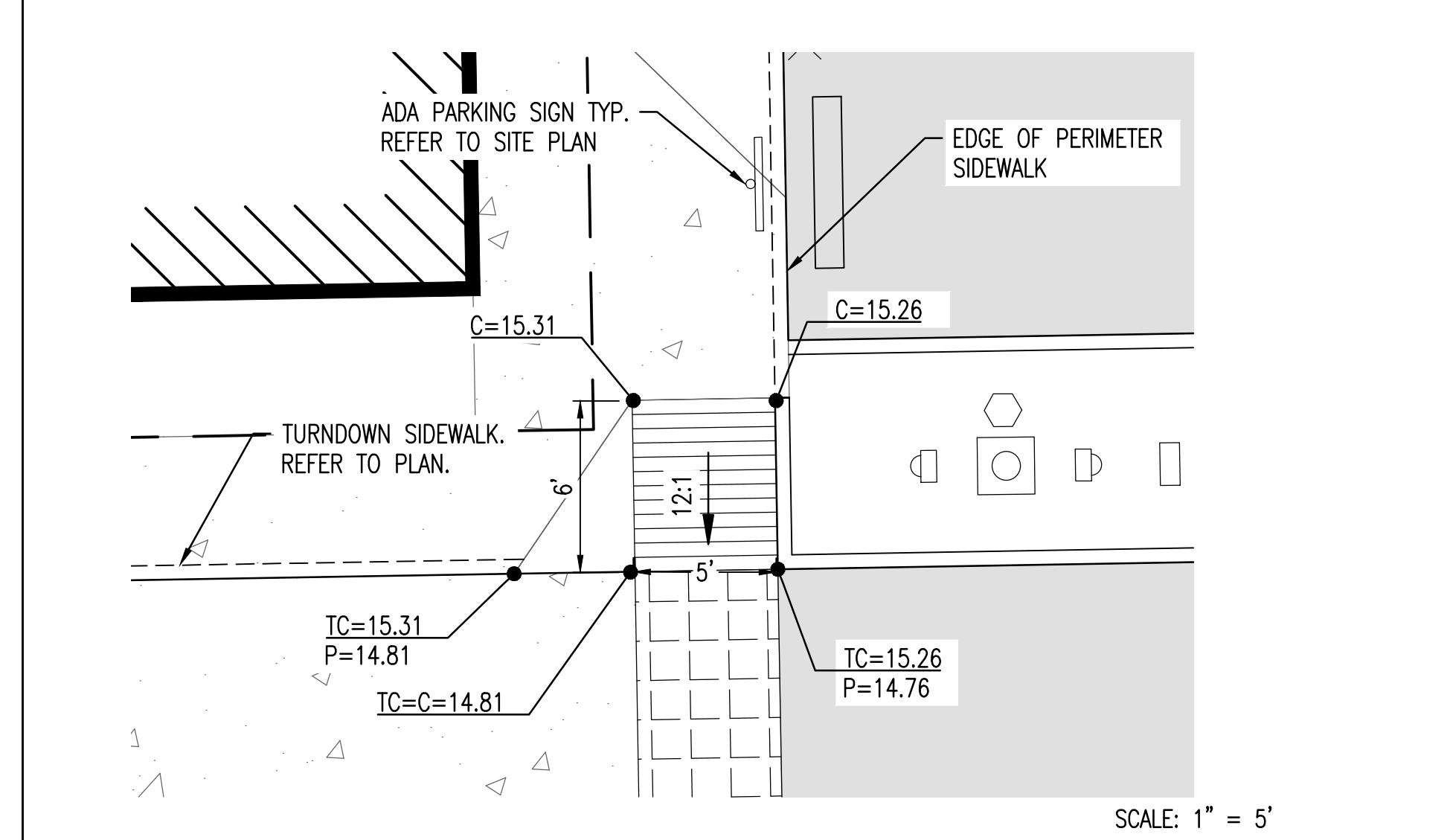
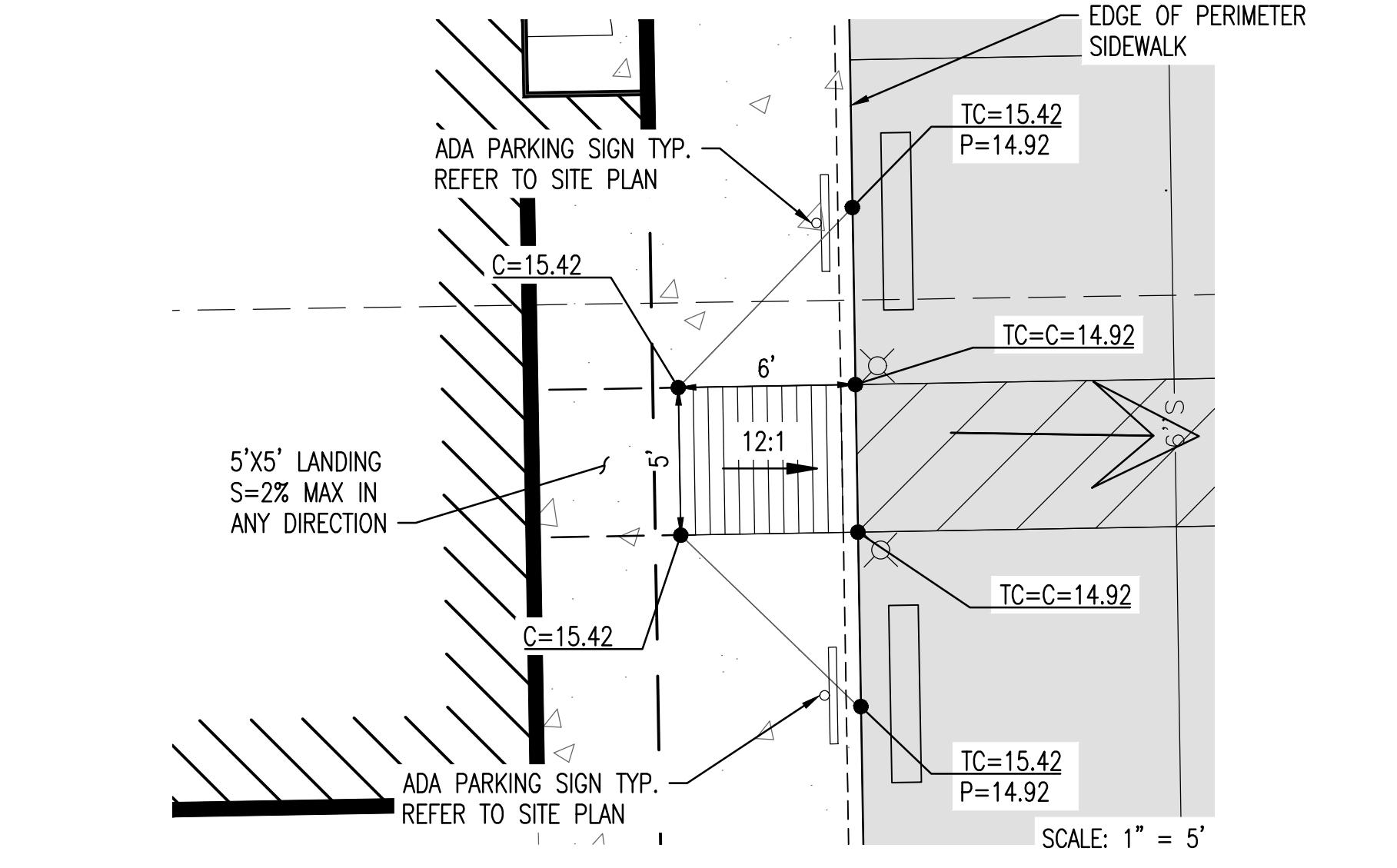
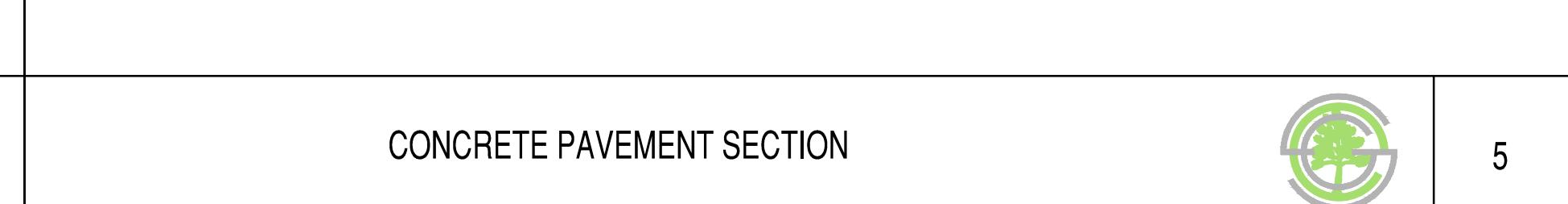
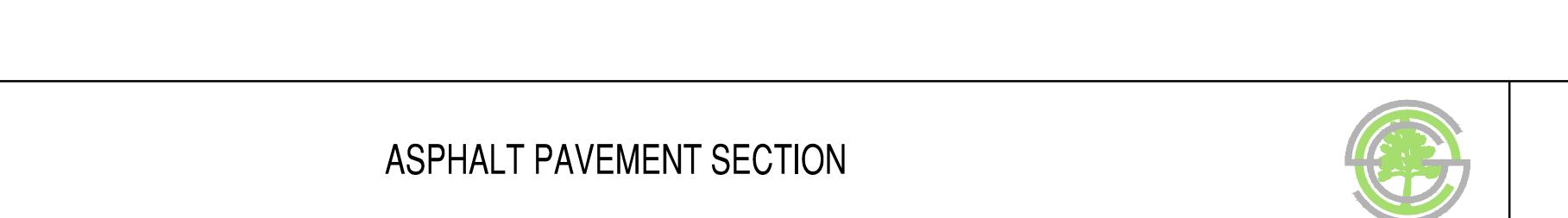
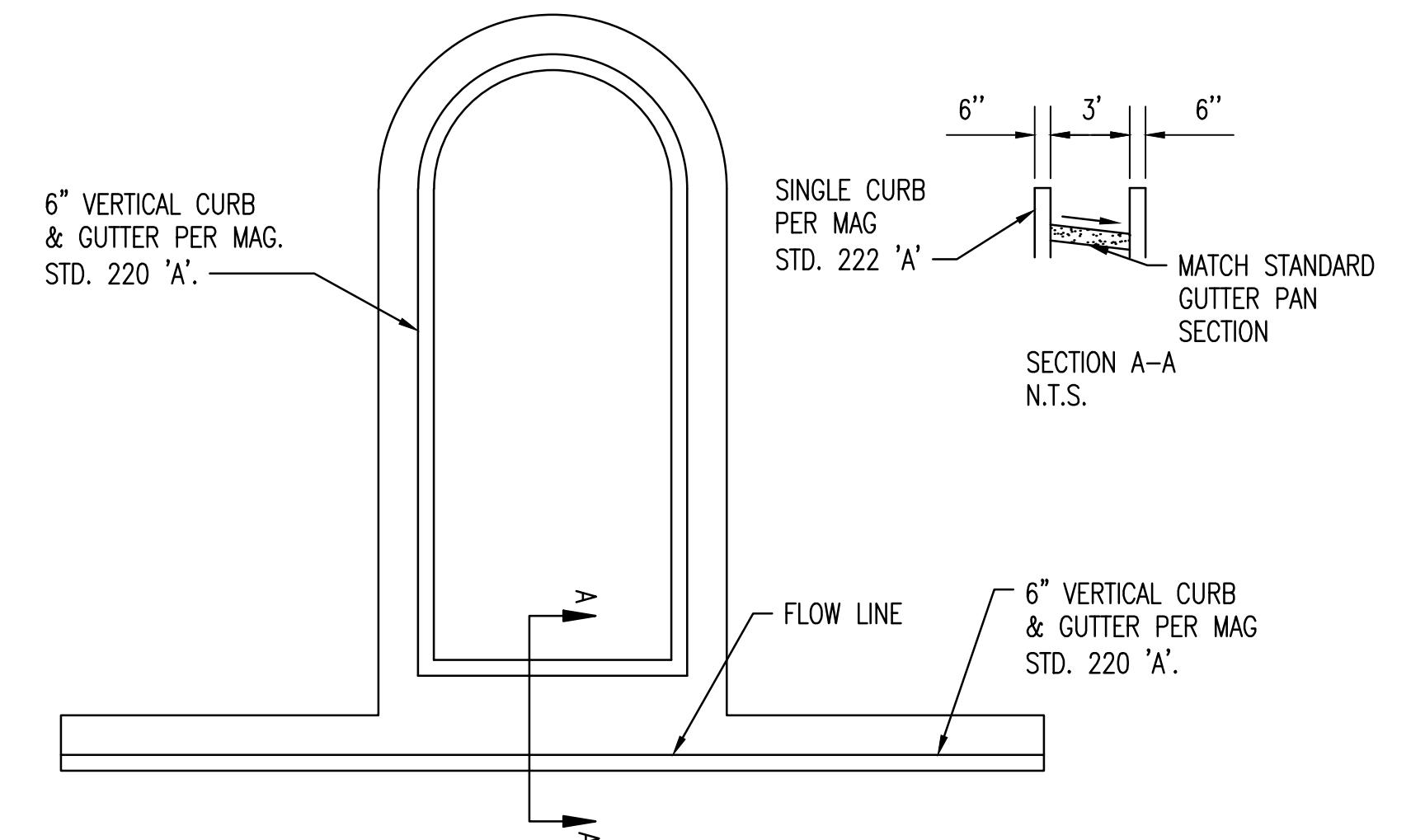
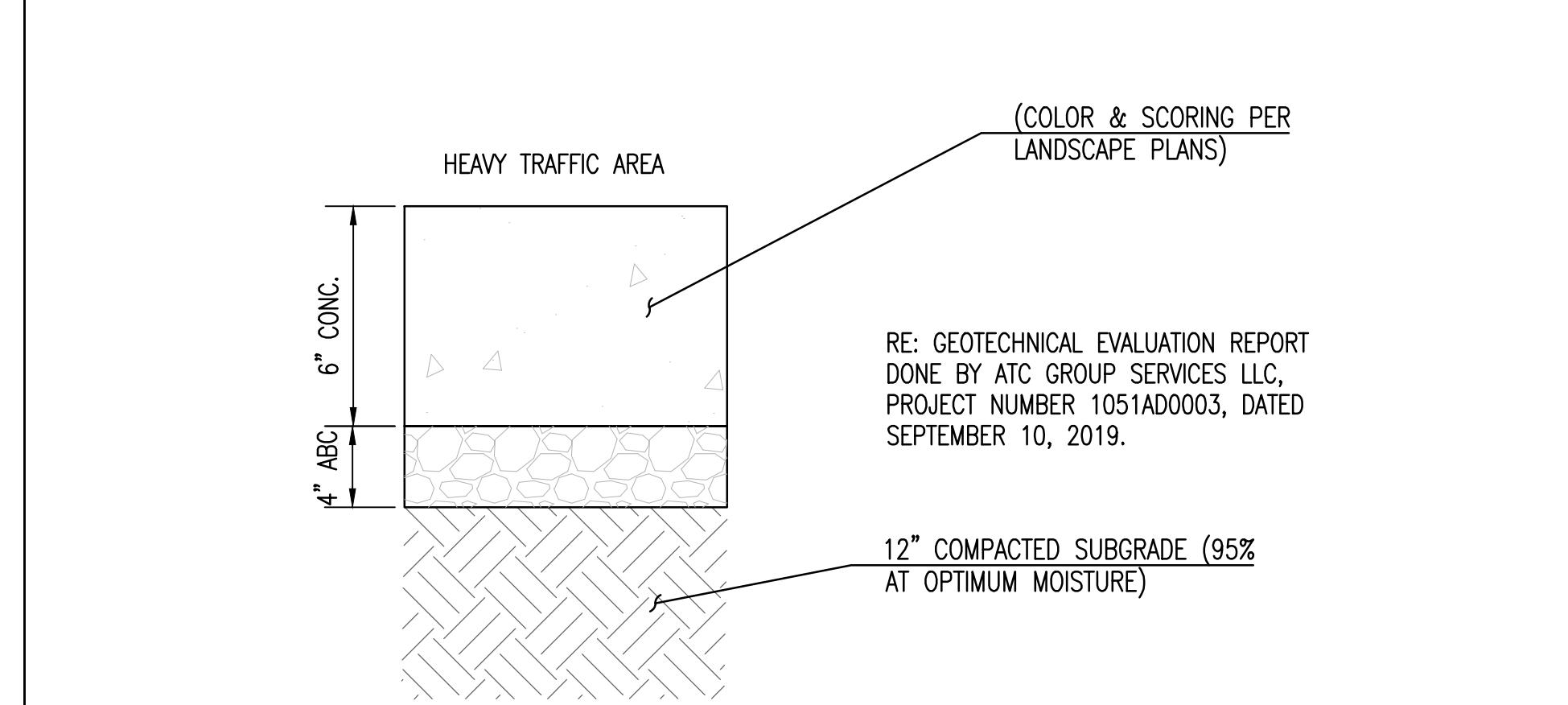
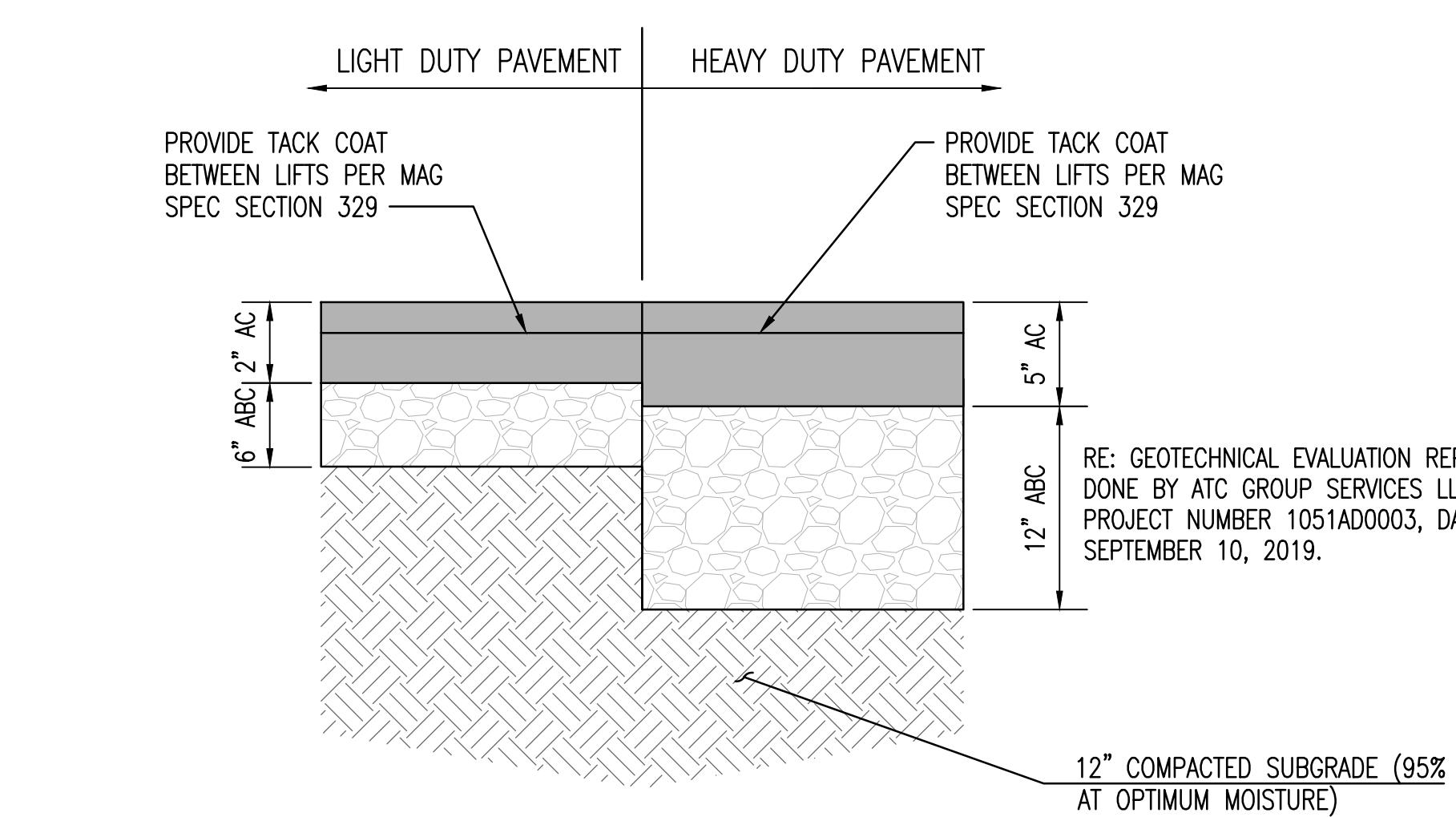
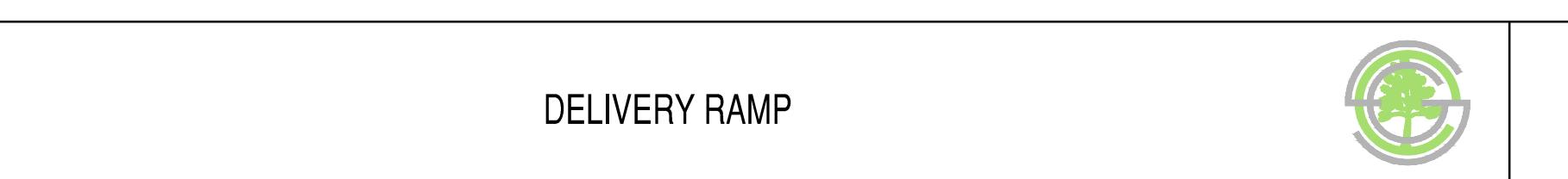
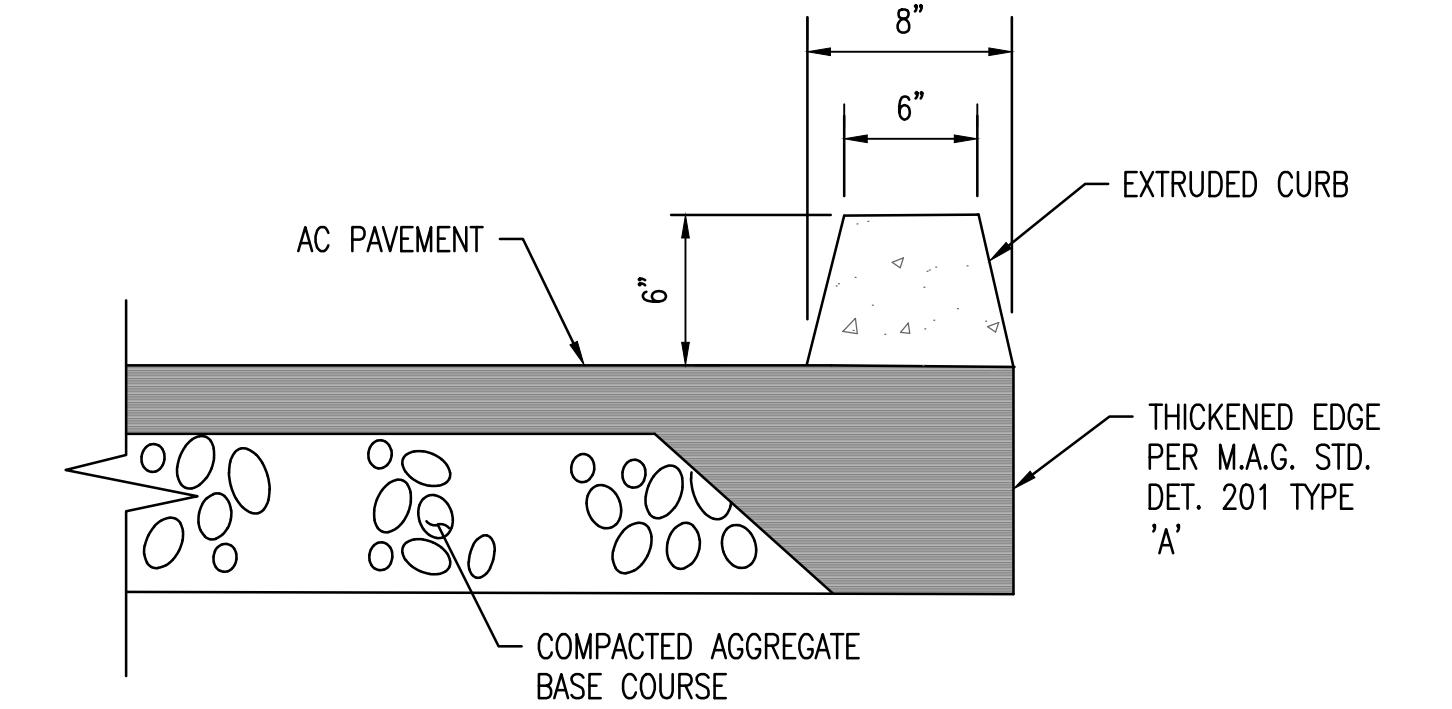
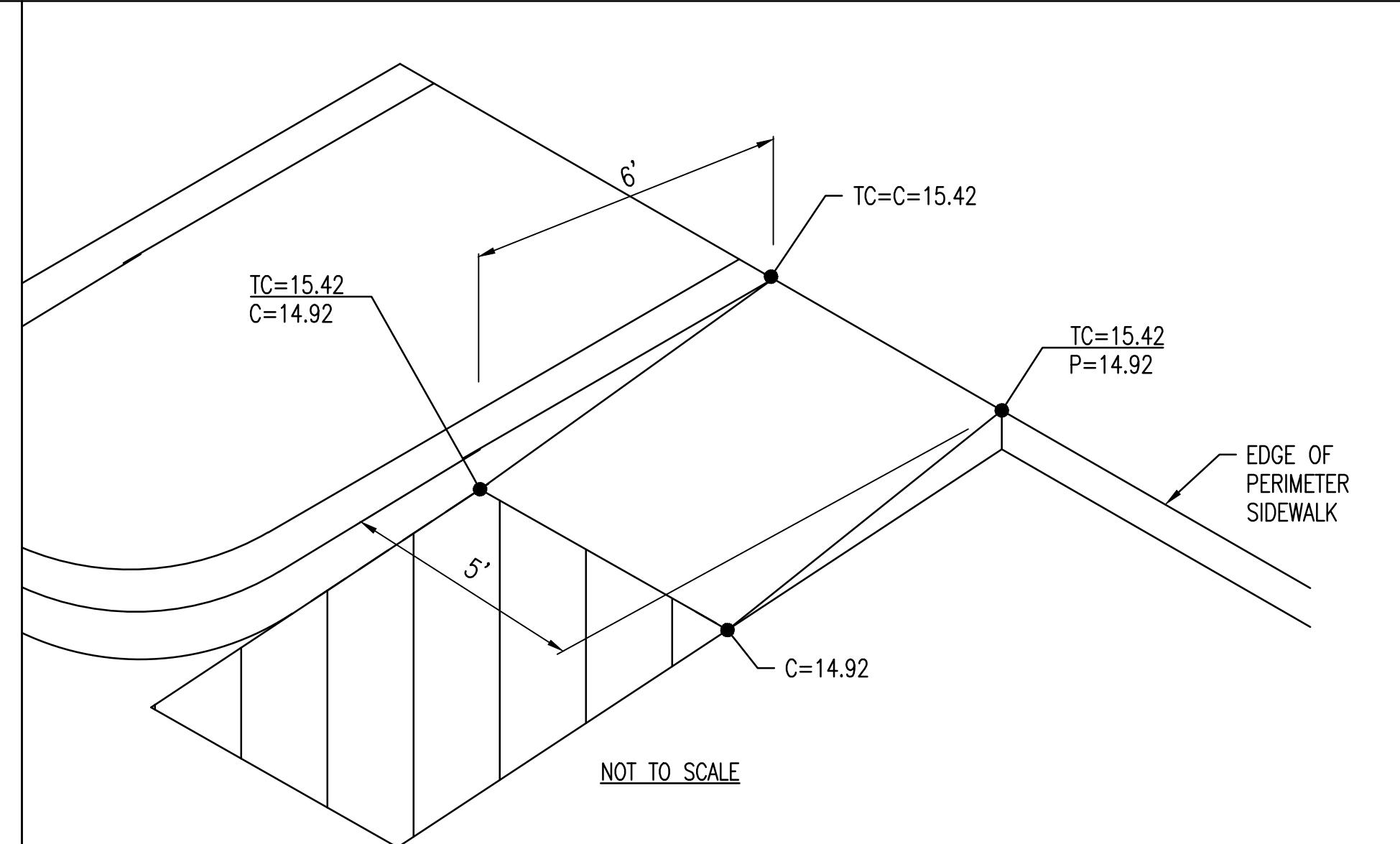
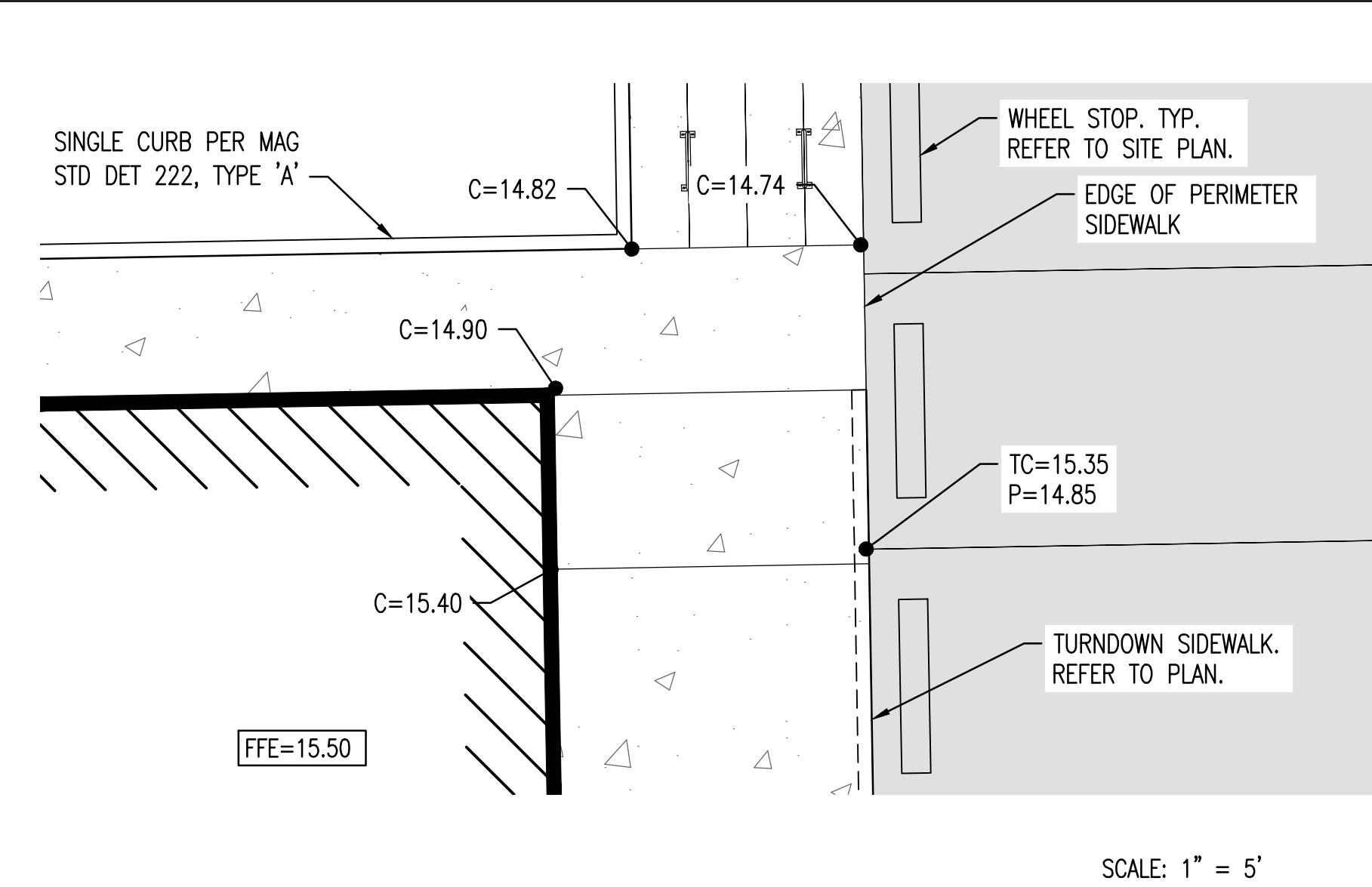
卷之三



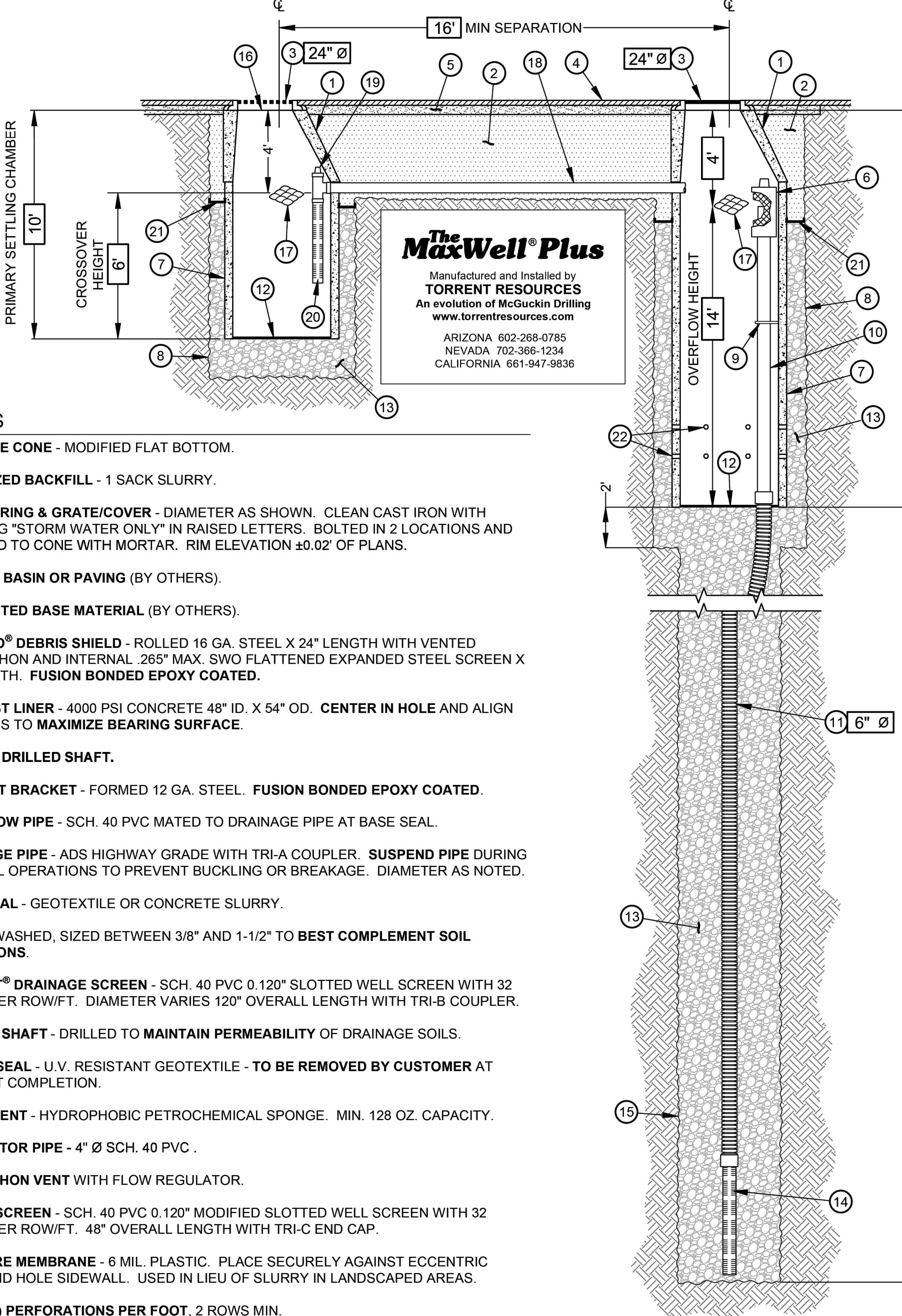
The logo for Desert De Oro Foods consists of a vertical rectangular frame. On the left side, there is a black silhouette of a mountain range with jagged peaks. To the right of the mountain silhouette, the word "Desert" is written vertically in a bold, sans-serif font. Next to "Desert", the words "De Oro Foods" are stacked vertically in a larger, bold, sans-serif font. Below "Foods", the letters "INC" are printed in a smaller, bold, sans-serif font.



WHATABURGER AVONDALE	LOCATION	NEC N. 107TH AVE AND W. McDOWELL ROAD
	DS	10/21/2022
	LR/DS	10/21/2022
	SC	10/21/2022
	LA	10/25/2022
R.	AF	10/25/2022
10/25/2022		
OR:	PERMITS	
O.:	DATE:	
201015		
E:		
GRADING AND DRAINAGE DETAILS		
OF 18	SHEET NO.:	C3.10



The MaxWell® Plus Drainage System Detail And Specifications



NOTES

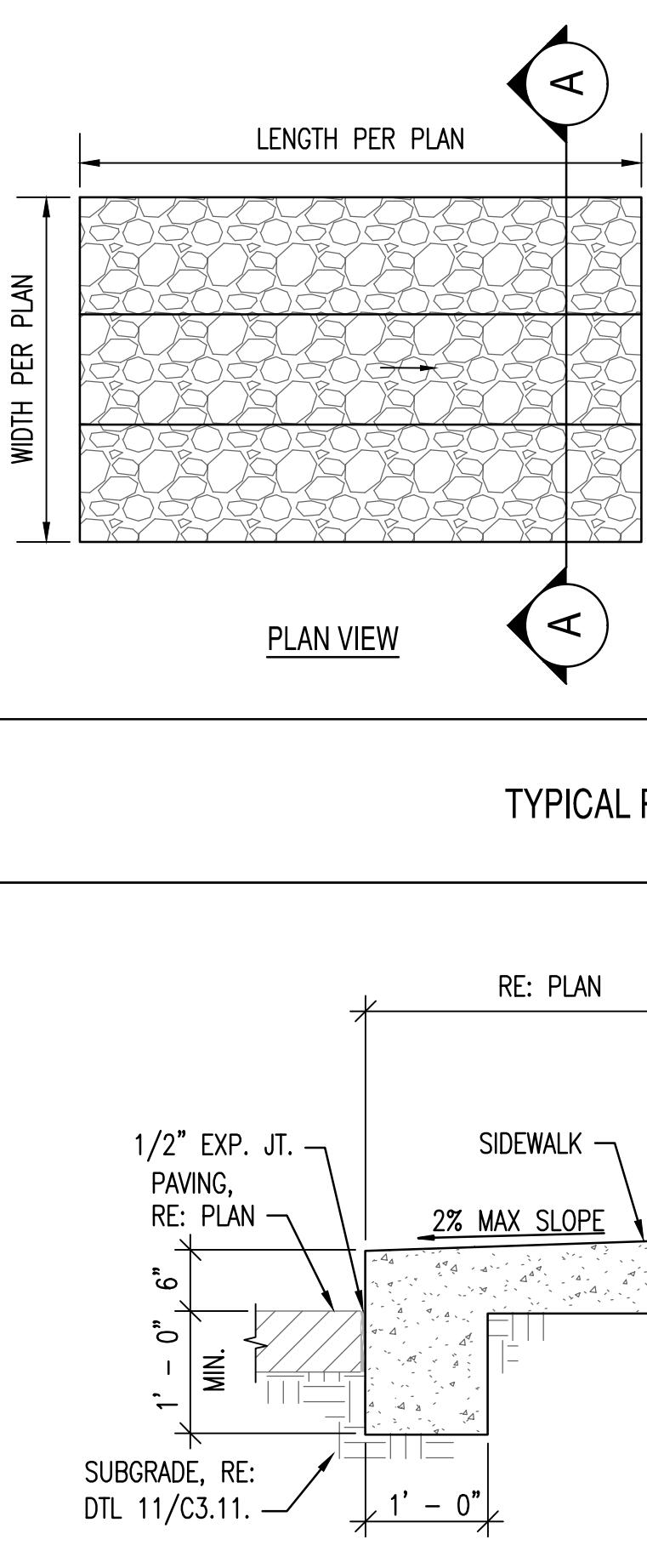
1. MANHOLE CONE - MODIFIED FLAT BOTTOM.
2. STABILIZED BACKFILL - 1 SACK SLURRY.
3. BOLTED RING & GRATE/COVER - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORDING "STORM WATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION $\pm 0.02'$ OF PLANS.
4. GRADED BASIN OR PAVING (BY OTHERS).
5. COMPACTED BASE MATERIAL (BY OTHERS).
6. PUREFLO® DEBRIS SHIELD - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
7. PRE-CAST LINER - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
8. MIN. 6' Ø DRILLED SHAFT.
9. SUPPORT BRACKET - FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED.
10. OVERFLOW PIPE - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
11. DRAINAGE PIPE - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. BASE SEAL - GEOTEXTILE OR CONCRETE SLURRY.
13. ROCK - WASHED, SIZED BETWEEN 3/8" AND 1-1/2" TO BEST COMPLEMENT SOIL CONDITIONS.
14. FLOFAST® DRAINAGE SCREEN - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. DIAMETER VARIES 120" OVERALL LENGTH WITH TRI-B COUPLER.
15. MIN. 4' Ø SHAFT - DRILLED TO MAINTAIN PERMEABILITY OF DRAINAGE SOILS.
16. FABRIC SEAL - U.V. RESISTANT GEOTEXTILE - TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.
17. ABSORBENT - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.
18. CONNECTOR PIPE - 4" Ø SCH. 40 PVC.
19. ANTI-SIPHON VENT WITH FLOW REGULATOR.
20. INTAKE SCREEN - SCH. 40 PVC 0.120" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP.
21. MOISTURE MEMBRANE - 6 MIL. PLASTIC. PLACE SECURELY AGAINST ECCENTRIC CONE AND HOLE SIDEWALL. USED IN LIEU OF SLURRY IN LANDSCAPED AREAS.
22. EIGHT (8) PERFORATIONS PER FOOT, 2 ROWS MIN.

AZ Lic. ROC070465 A, ROC047067 B-4 ADWR 363
CA Lic. 528080, C-42, HAZ
NV Lic. 0035350 A - NM Lic. 90504 GF04
U.S. Patent No. 4,923,330 - TM Trademark 1974, 1990, 2004

DRYWELL MAXWELL PLUS TYPICAL DETAIL

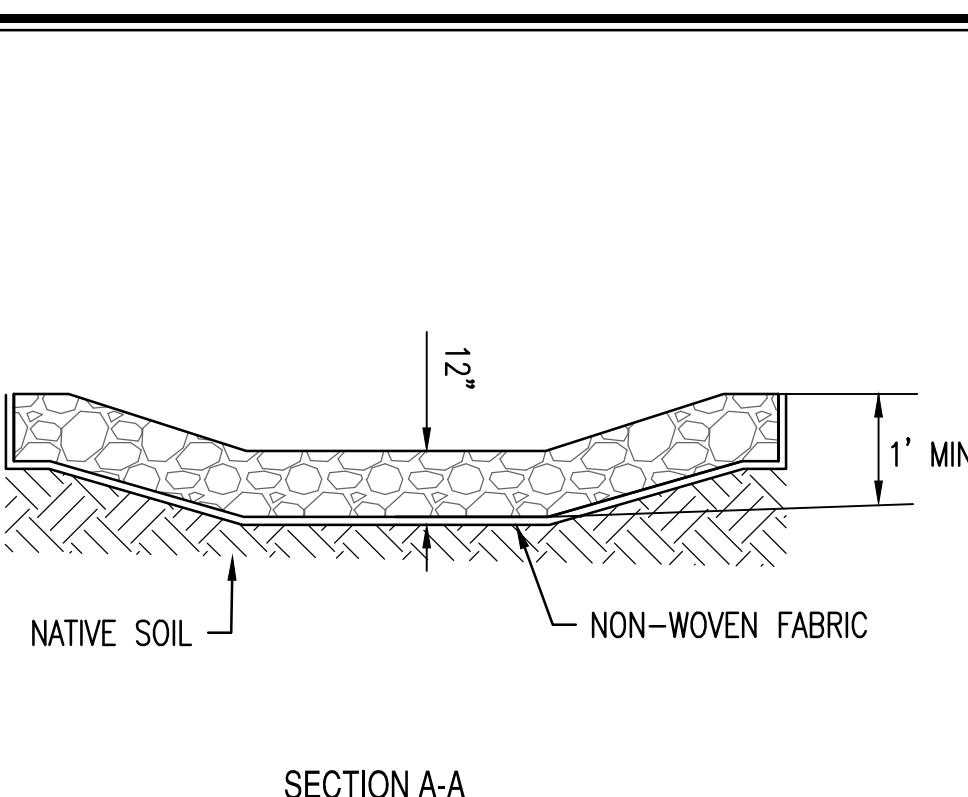


10

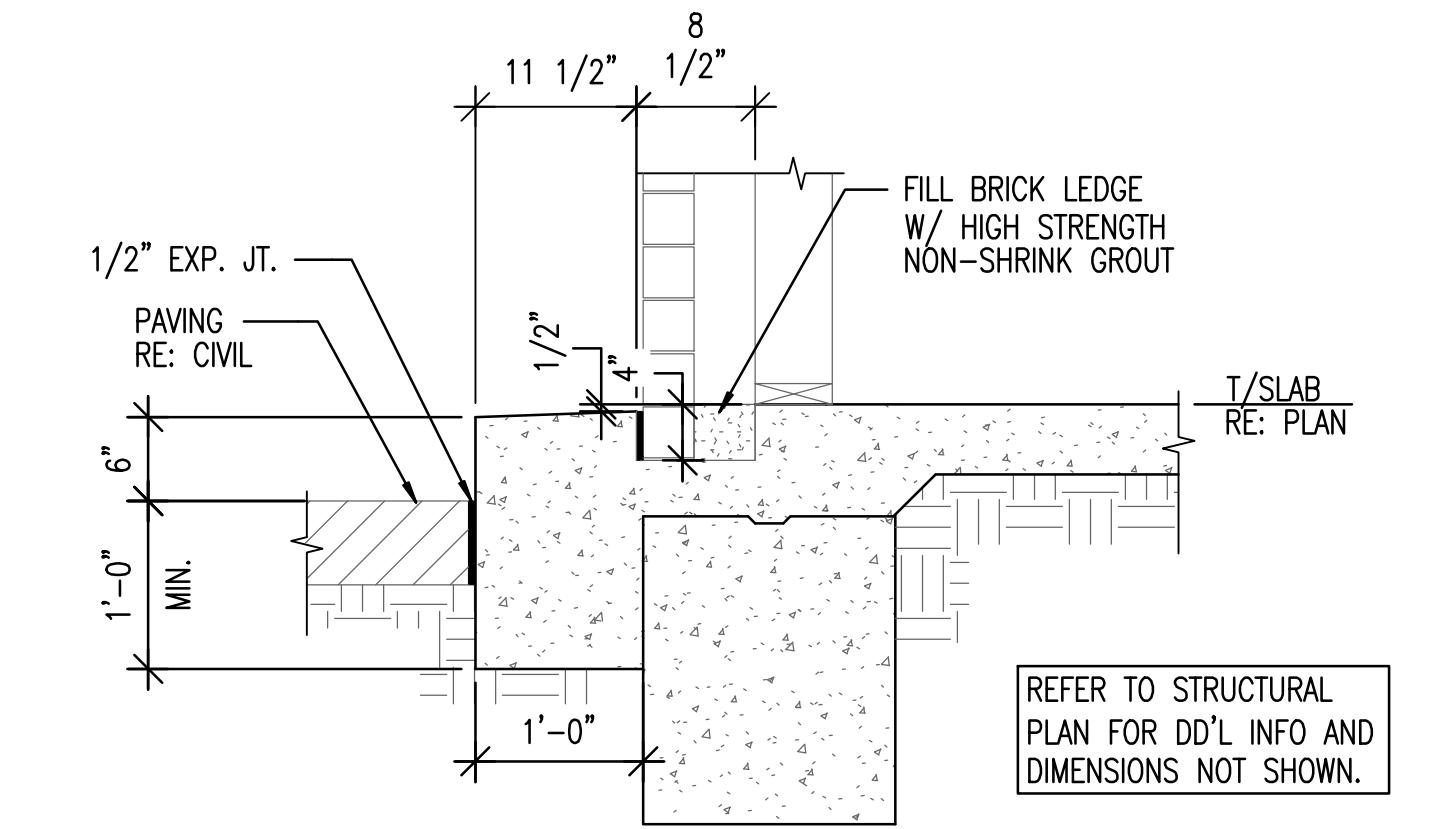


TYPICAL RIP RAP PAD

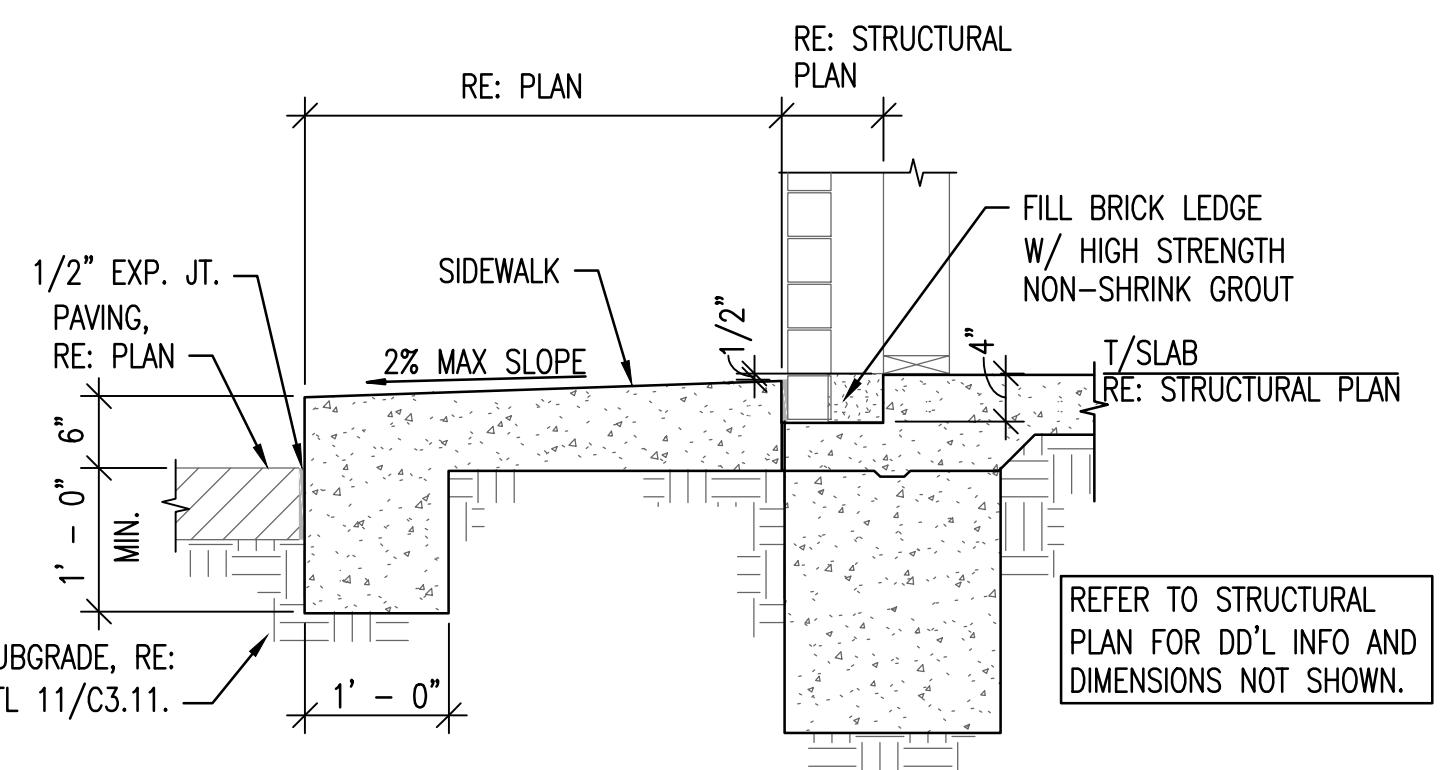
11



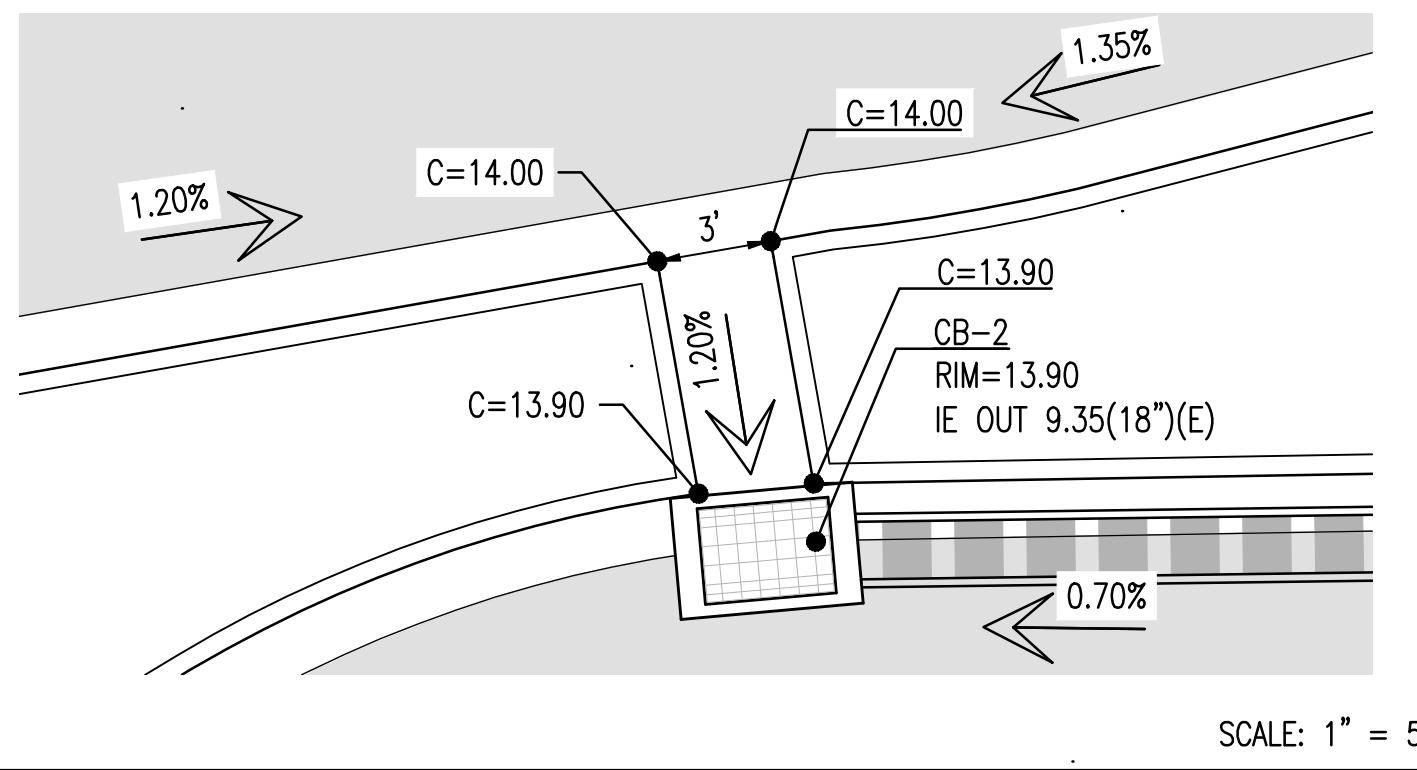
SECTION A-A



12

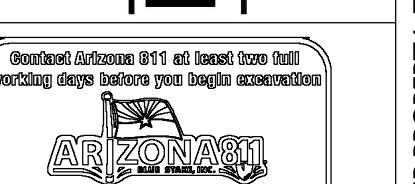


13



14

Desert De Oro Foods
INC



PROJECT	WHATABURGER AVONDALE
LOCATION	NEC N. 107TH AVE AND W. McDOWELL ROAD
DRAWN	DS 10/21/2022
DESIGNED	LR/DS 10/21/2022
QC	SC 10/21/2022
FINAL QC	LA 10/25/2022
PROJ. MGR.	AF 10/25/2022

DATE:	10/25/2022
ISSUED FOR:	PERMITS
REVISION NO.:	
JOB NO.:	201015
SHEET TITLE:	GRADING AND DRAINAGE DETAILS

PAGE NO.:	9 OF 18
SHEET NO.:	C3.11



**SUSTAINABILITY
ENGINEERING
GROUP**



SUSTAINABILITY
ENGINEERING
GROUP

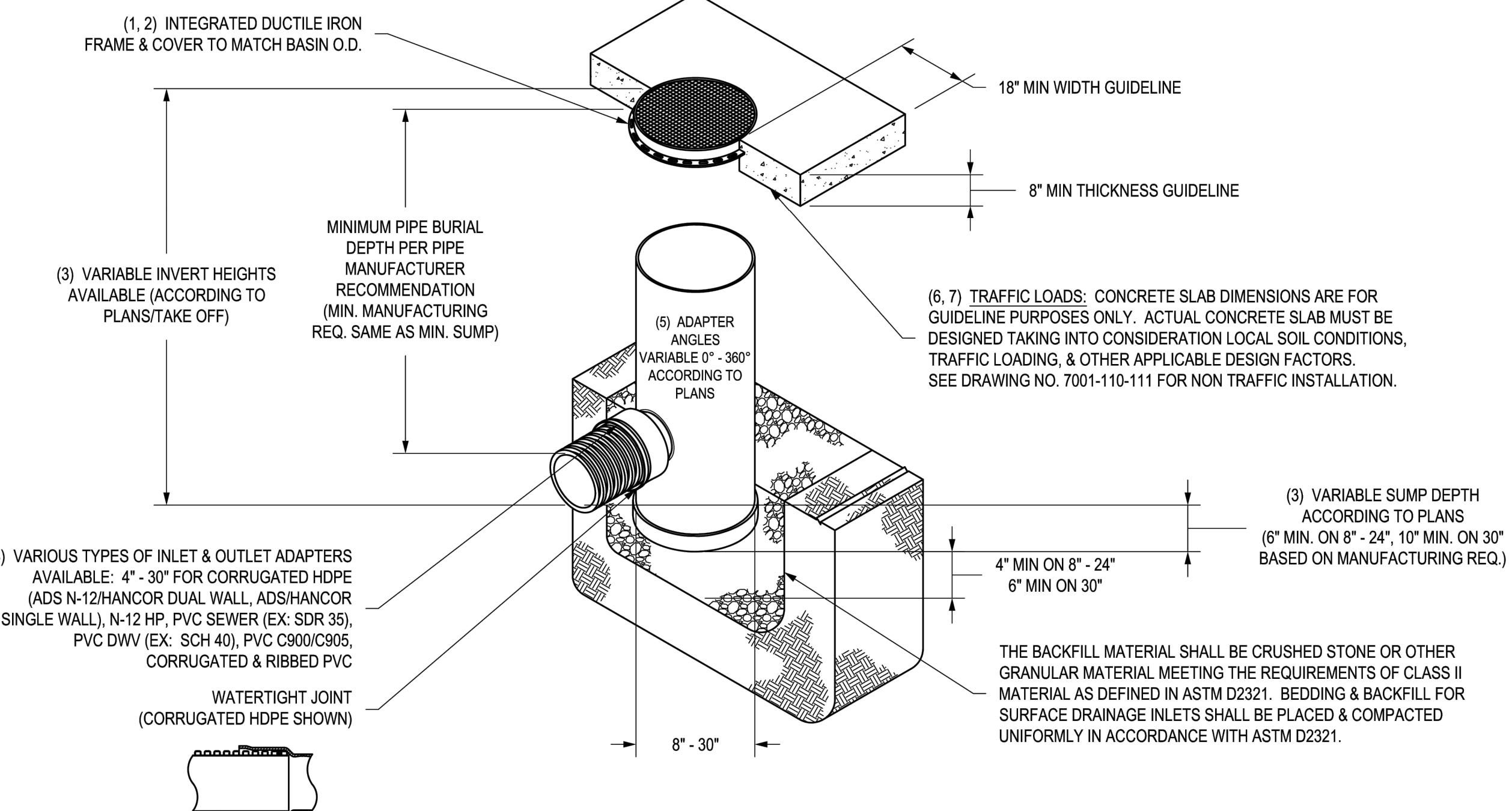
820 E. GELDING DRIVE SUITE 101 SCOTTSDALE ARIZONA 85260
WWW.AZSEG.COM TEL: 480.388.7226 FAX: 480.389.3534



Desert De Oro Foods
INC

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

NYLOPLAST DRAIN BASIN WITH SOLID COVER

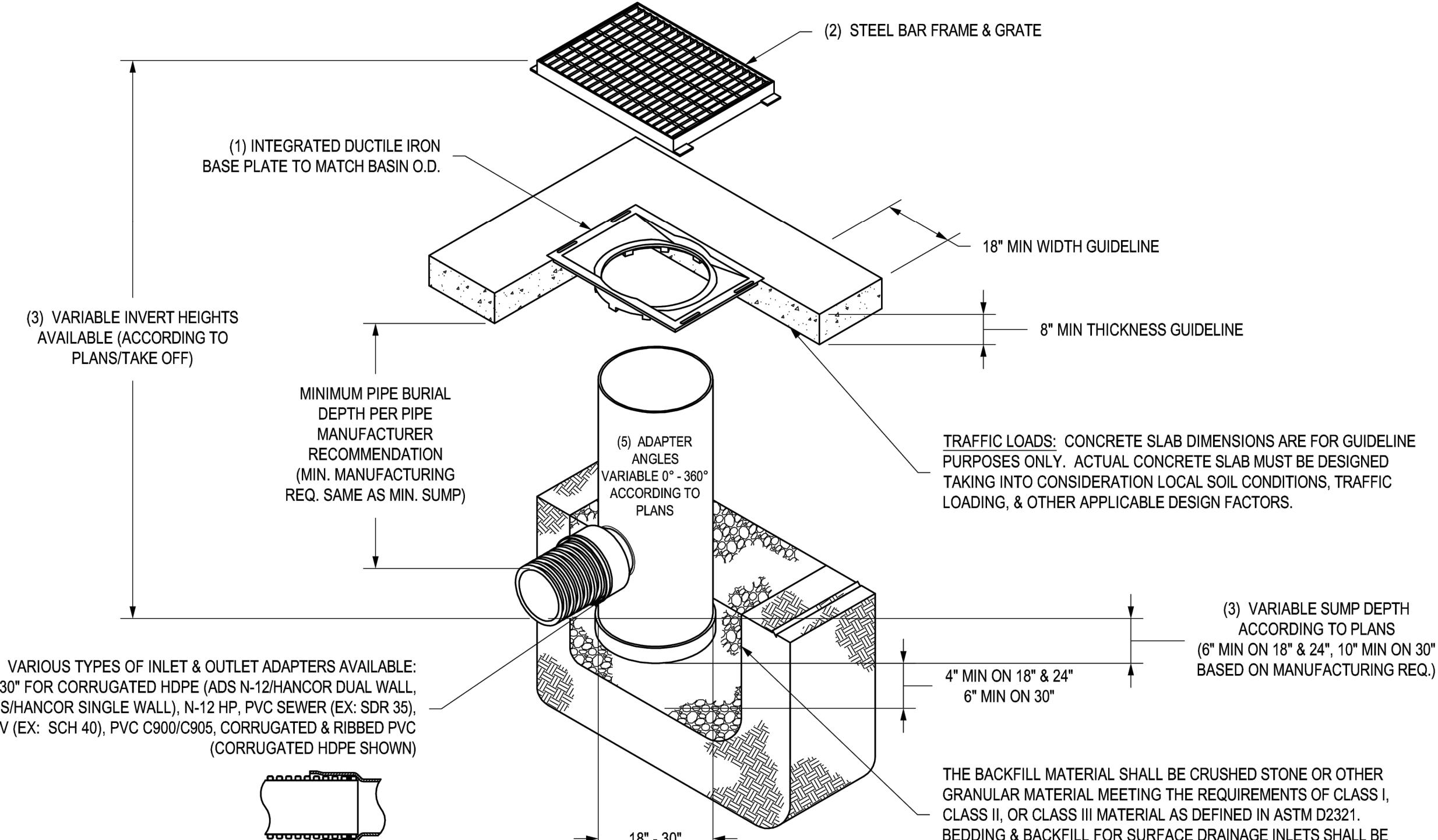


- 1 - 8"-30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 12"-30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - 8" & 10" SOLID COVERS FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-104-045.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO DETAILS. RISERS ARE NEEDED FOR BASES OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-116-005.
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 6 - 12"-30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
- 7 - 8" & 10" SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

©2013 NYLOPLAST

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN.	DRAWN BY EBC MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
REvised BY EBC PROJECT NO./NAME		
DATE 9-14-07	TITLE DRAIN BASIN WITH SOLID COVER QUICK SPEC INSTALLATION DETAIL	
DATE 3-14-10	DWG NO. 7001-110-298 REV B	

NYLOPLAST DRAIN BASIN WITH 2 FT X 3 FT STEEL BAR GRATE



- 1 - 18"-30" BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - FRAME & GRATE SHALL BE STEEL PER ASTM A36.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4"-24").
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 6 - STEEL BAR GRATE SHALL MEET H-20 LOAD RATING.

©2013 NYLOPLAST

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN.	DRAWN BY EBC MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
REvised BY NMH PROJECT NO./NAME		
DATE 03-22-10	TITLE DRAIN BASIN WITH 2 FT X 3 FT STEEL BAR GRATE QUICK SPEC INSTALLATION DETAIL	
DATE 03-16-16	DWG NO. 7001-110-395 REV D	

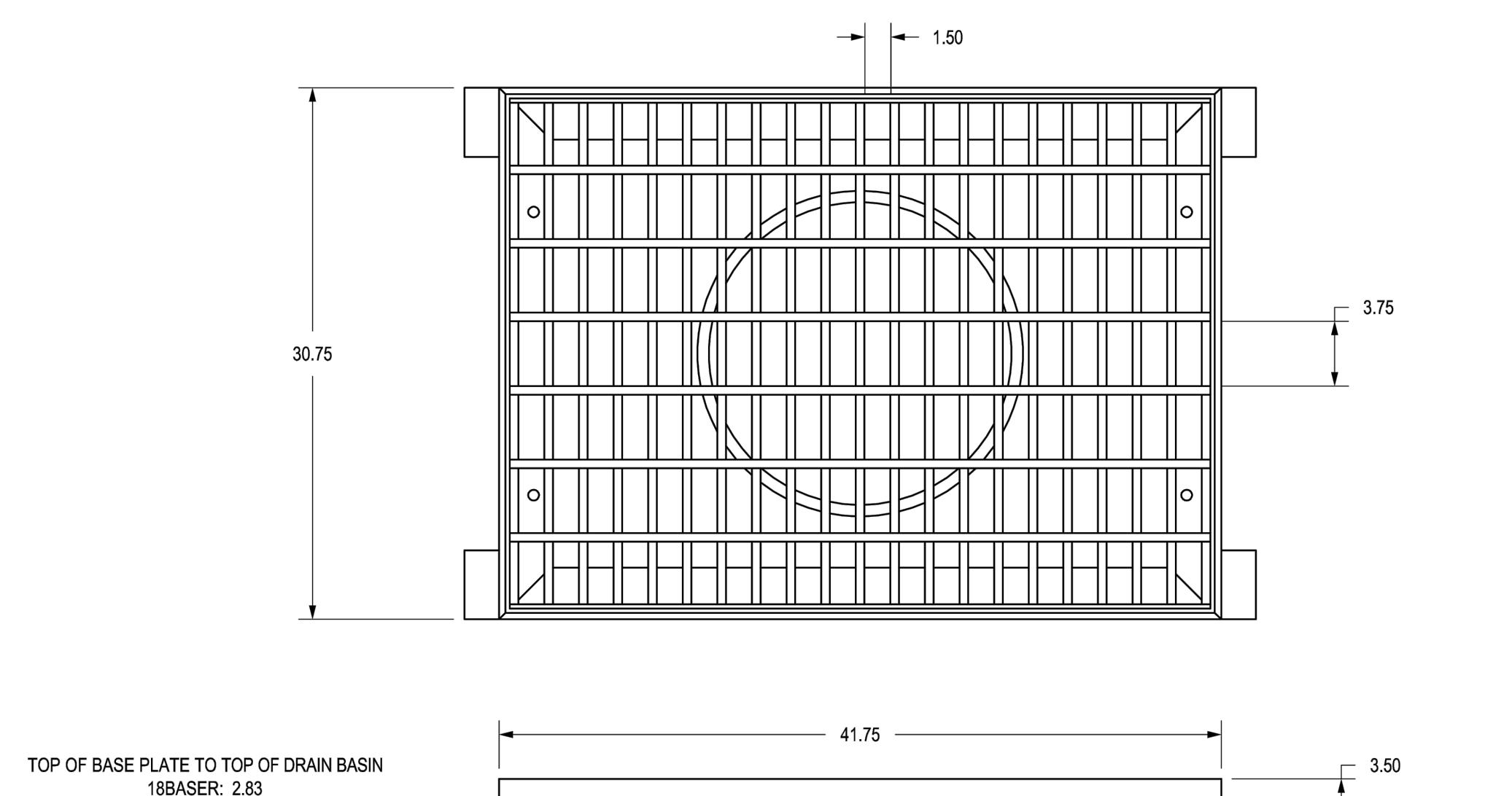
NYLOPLAST DRAIN BASIN WITH SOLID LID DETAIL



15

3299CGRSB

APPROX. GRATE DRAIN AREA = 761.18 SQ IN
*APPROX. WEIGHT WITH FRAME = 354.00 LBS



ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
GRADE MEETS H-20 LOAD RATING
QUALITY: FRAME & GRATE MATERIALS SHALL CONFORM TO ASTM
A-36 STEEL, BASE PLATE MATERIALS SHALL CONFORM TO ASTM A536
GRADE 70-50-05 DUCTILE IRON
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO.
7001-110-257

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN.	DRAWN BY CJA MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
REvised BY CCA PROJECT NO./NAME		
DATE 02-28-03	TITLE 2 FT X 3 FT STEEL BAR GRATE ASSEMBLY	

DWG SIZE A	SCALE 1:10	HEET 1 OF 1	DWG NO. 7001-110-299	REV F
------------	------------	-------------	----------------------	-------

2'X3' STEEL BAR GRATE ASSEMBLY DETAIL



17

911 at least two full working days before you begin construction
ARIZONA
Call 911 or visit Arizona911.com

PROJECT	WHATABURGER AVONDALE	LOCATION
DRAWN	DS	10/21/2022
DESIGNED	LR/DS	10/21/2022
QC	SC	10/21/2022
FINAL QC	LA	10/25/2022
PROJ. MGR.	AF	10/25/2022

DATE:	10/25/2022
ISSUED FOR:	PERMITS
REVISION NO.:	DATE:
<input type="checkbox"/>	
JOB NO.:	201015
SHEET TITLE:	

PAGE NO.:	10 OF 18
SHEET NO.:	C3.12



SUSTAINABILITY ENGINEERING GROUP

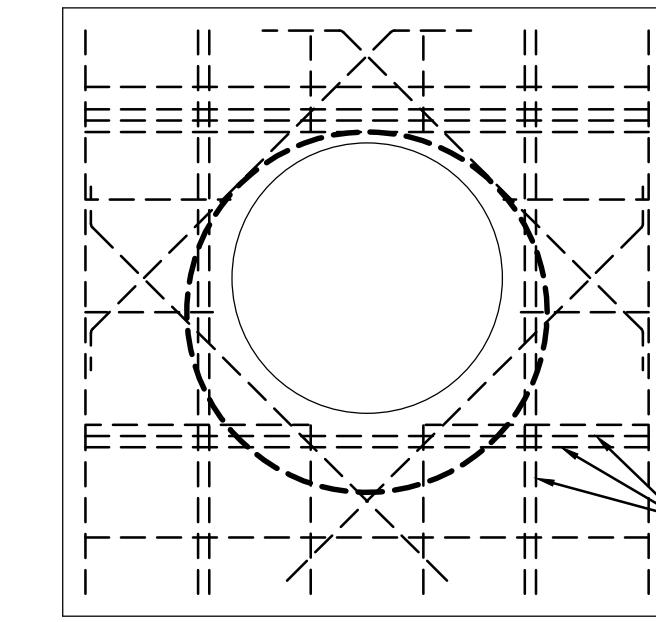
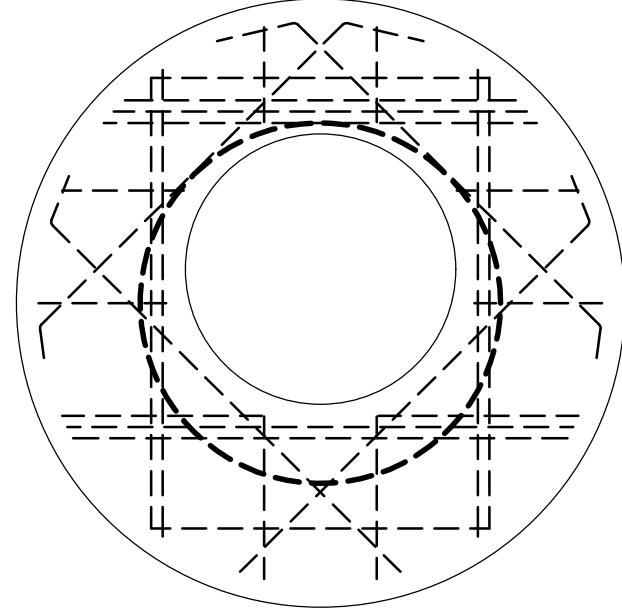
8280 E. GELDING DRIVE SUITE 101 SCOTTSDALE ARIZONA 85260
WWW.AZSEG.COM TEL: 480.389.7226 FAX: 480.259.3534



Desert De Oro Foods INC

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

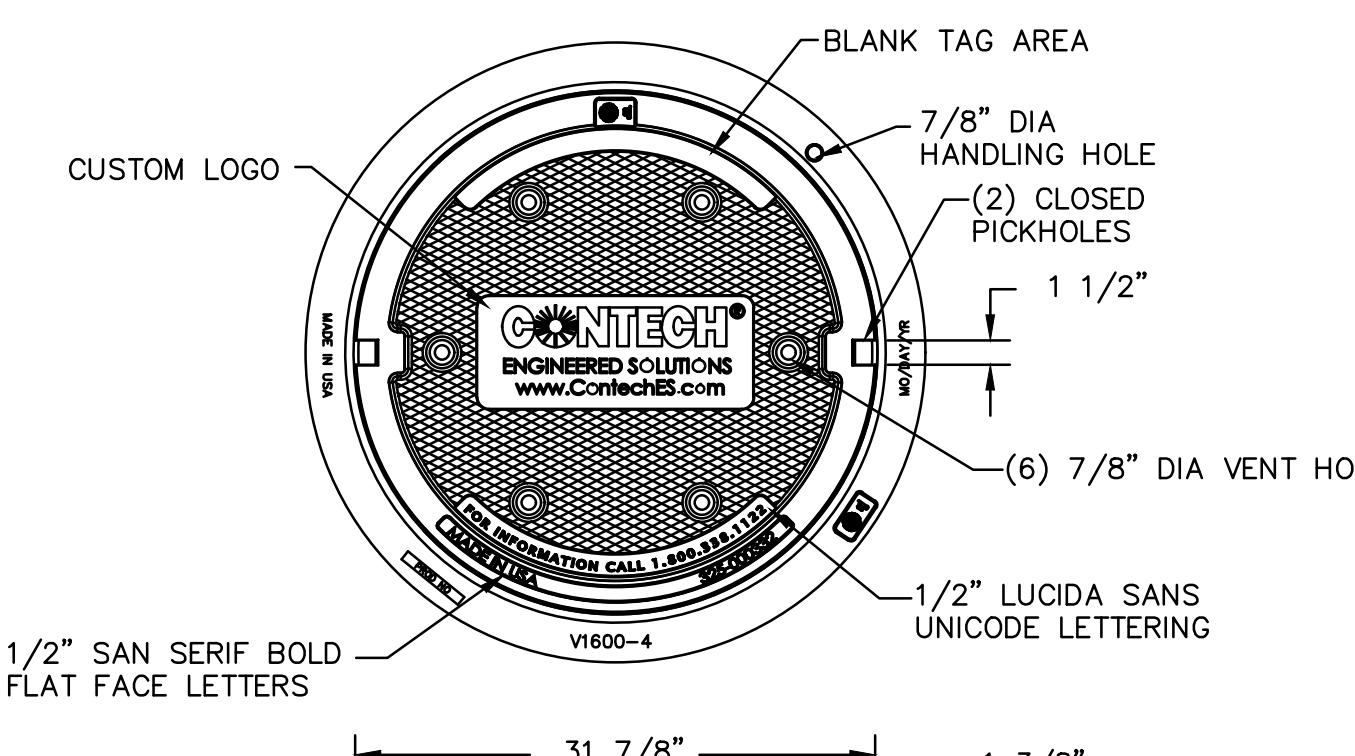
REINFORCING TABLE				
Ø CMP RISER	A	Ø B	REINFORCING	**BEARING PRESSURE (PSF)
24"	Ø 4' 4"x4"	26"	#5 @ 10" OCEW #5 @ 10" OCEW	2,540 1,900
30"	Ø 4' 6"x4' 6"	32"	#5 @ 10" OCEW #5 @ 9" OCEW	2,260 1,670
36"	Ø 5' 5"x5'	38"	#5 @ 9" OCEW #5 @ 8" OCEW	2,060 1,500
42"	Ø 5' 6"x5' 6"	44"	#5 @ 8" OCEW #5 @ 8" OCEW	1,490 1,370
48"	Ø 6' 6"x6'	50"	#5 @ 7" OCEW #5 @ 7" OCEW	1,210 1,270



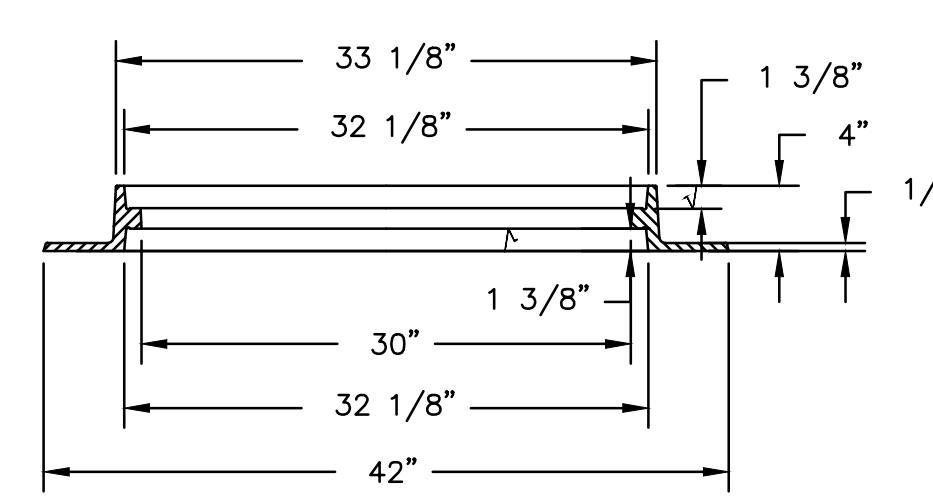
NOTES:

- DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION AND ACI 350.
- DESIGN LOAD HS25.
- EARTH COVER = 1' MAX.
- CONCRETE STRENGTH = 4,000 psi
- REINFORCING STEEL = ASTM A615, GRADE 60.
- PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
- TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
- PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- DETAIL DESIGN BY DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS, ENDWELL, NY.

30"x4" REVERSIBLE FRAME & SOLID COVER

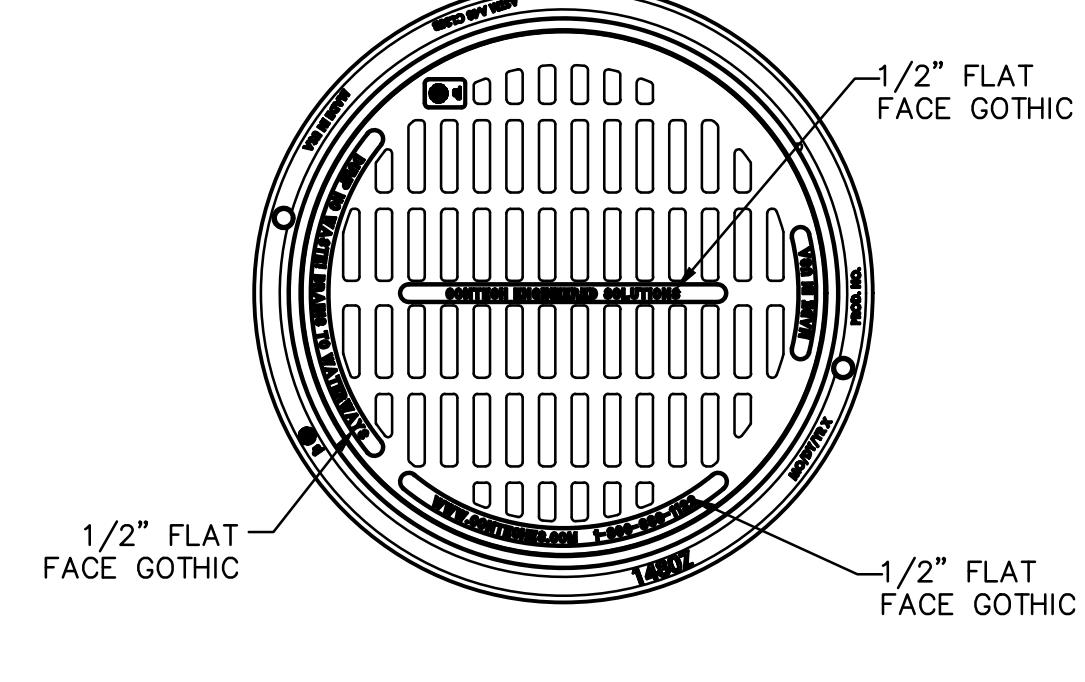


COVER SECTION

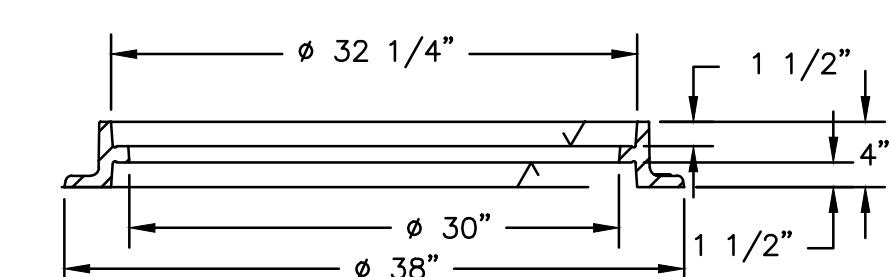


FRAME SECTION

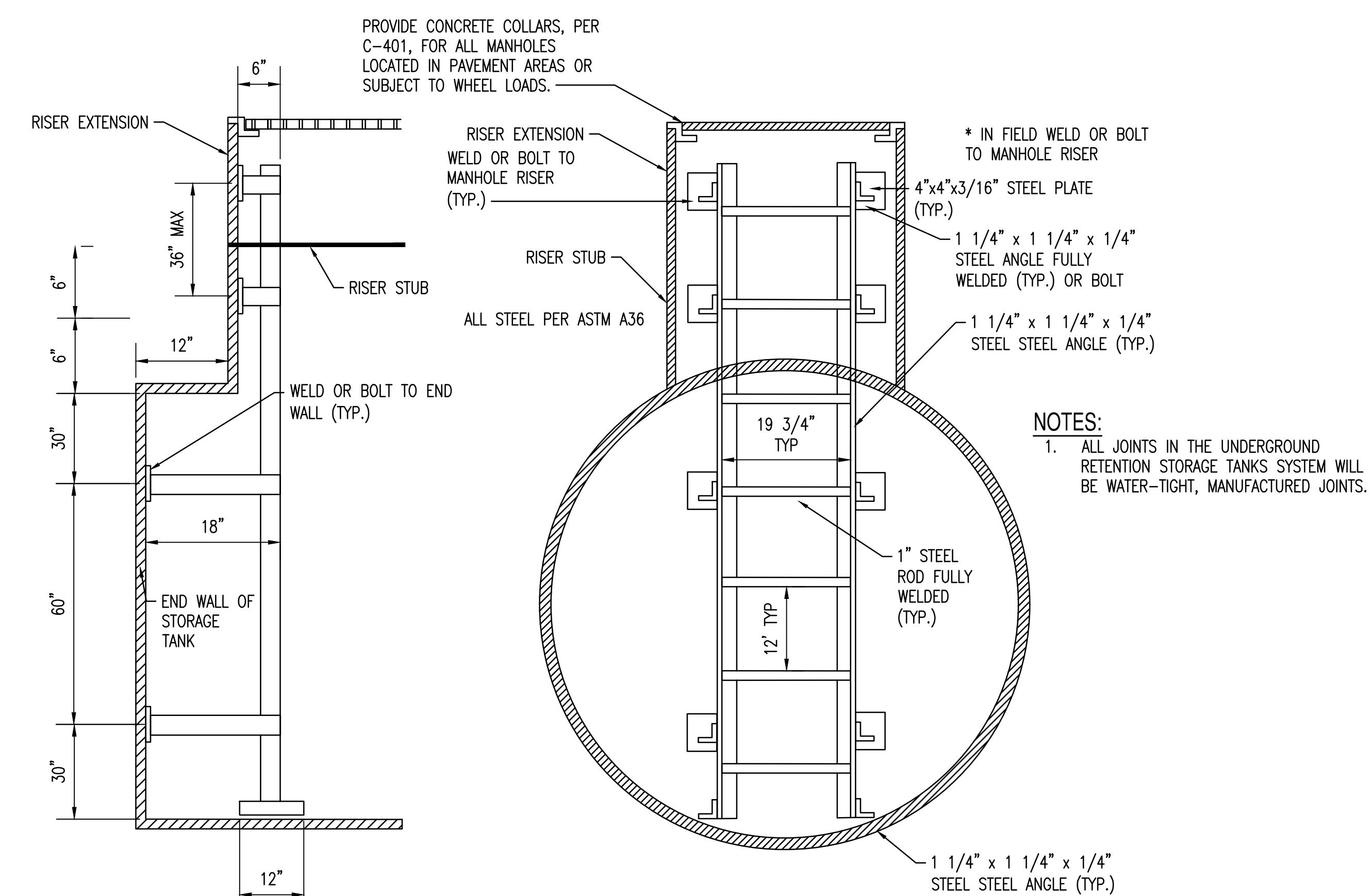
30"x4" REVERSIBLE FRAME & GRATE



COVER SECTION



FRAME SECTION

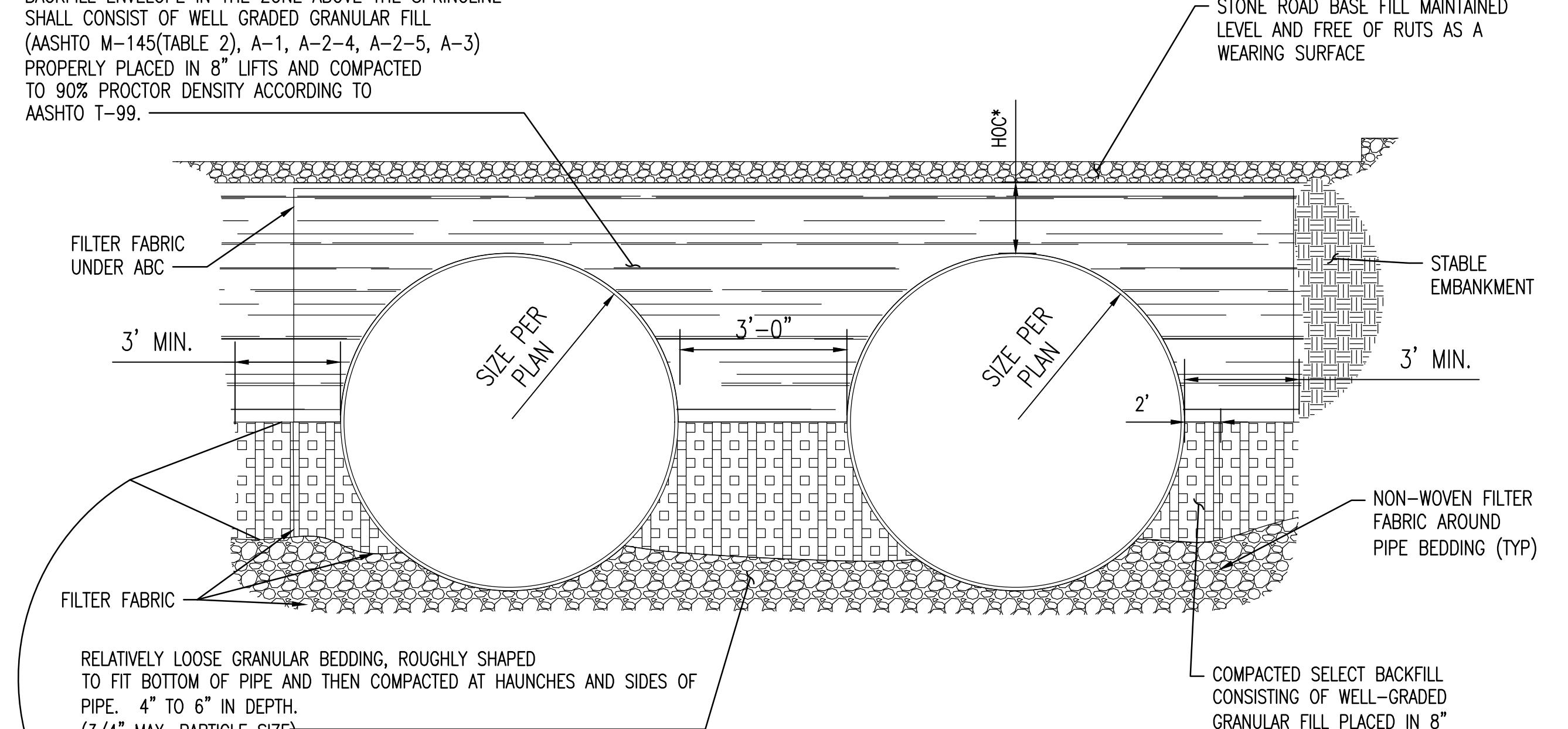


DETENTION PIPE LADDER



19

BACKFILL ENVELOPE IN THE ZONE ABOVE THE SPRINGLINE SHALL CONSIST OF WELL GRADED GRANULAR FILL (AASHTO M-145(TABLE 2), A-1, A-2-4, A-2-5, A-3) PROPERLY PLACED IN 8" LIFTS AND COMPACTED TO 90% PROCTOR DENSITY ACCORDING TO AASHTO T-99.



NOTE:
WHERE LAYERS OF FILL THAT VARY IN GRADATION ARE ADJACENT TO EACH OTHER, A FILTER FABRIC BARRIER SHOULD BE USED TO PREVENT MIGRATION OF FINES. (i.e. WHERE A FINER GRAINED SELECT FILL IS PLACED ON TOP OF, OR BELOW, AN OPEN-GRADED STONE FILL.)

* MINIMUM HEIGHT OF COVER(HOC) VARIES DEPENDING UPON QUALITY OF SELECT FILL USED. FOR CRUSHED STONE A-1-a SELECT FILL, OR EQUIVALENT MATERIAL, 2.5' MIN. COVER TO THE BOTTOM OF BASE COURSE IS REQUIRED. FOR OTHER SELECT FILL MATERIAL , 3' MIN. COVER IS REQUIRED TO BOTTOM OF BASE COURSE WEARING SURFACE.

REFER TO GEOTECHNICAL EVALUATION REPORT BY ATC GROUP SERVICES LLC, PROJECT NUMBER 1051AD003, DATED SEPTEMBER 10, 2019 FOR CMP GAUGING AND COATING RECOMMENDATIONS.

CMP TRENCH DETAIL
TYPICAL (2) BARREL CROSS-SECTION
NTS



20

PROJECT	WHATABURGER AVONDALE
LOCATION	NEC N. 107TH AVE AND W. McDowell Road
DRAWN	DS 10/21/2022
DESIGNED	LR/DS 10/21/2022
QC	SC 10/21/2022
FINAL QC	LA 10/25/2022
PROJ. MGR.	AF 10/25/2022
DATE:	10/25/2022
ISSUED FOR:	PERMITS
REVISION NO.:	
JOB NO.:	201015
SHEET TITLE:	GRADING AND DRAINAGE DETAILS
PAGE NO.:	11 OF 18
SHEET NO.:	C3.13



SUSTAINABILITY
ENGINEERING
GROUP

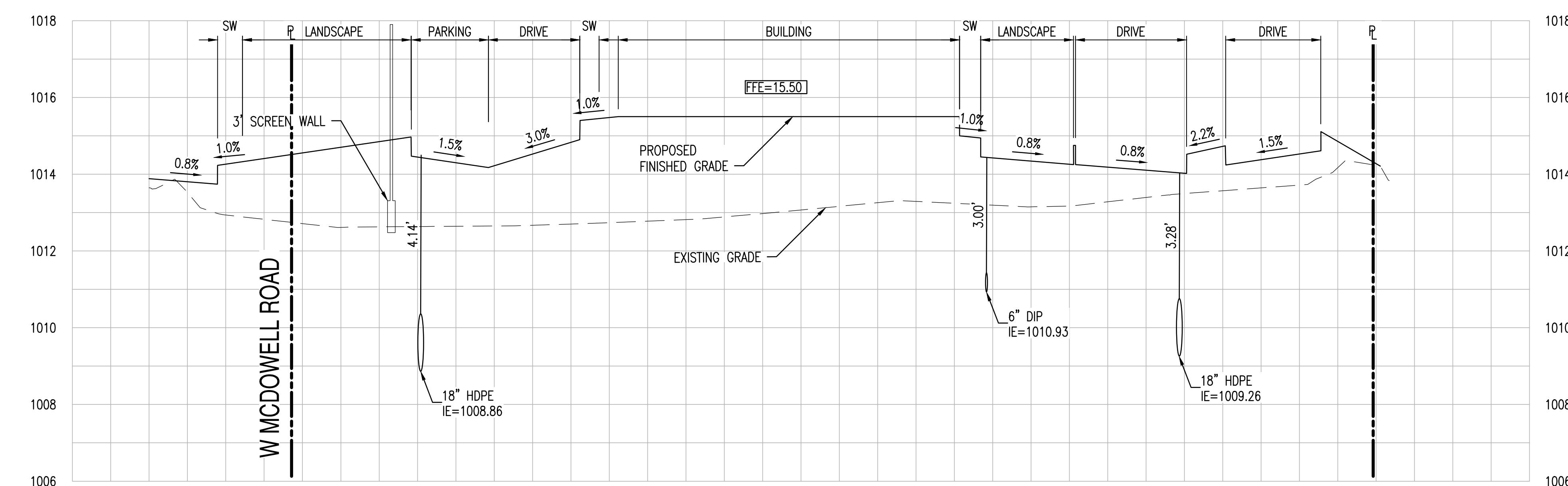
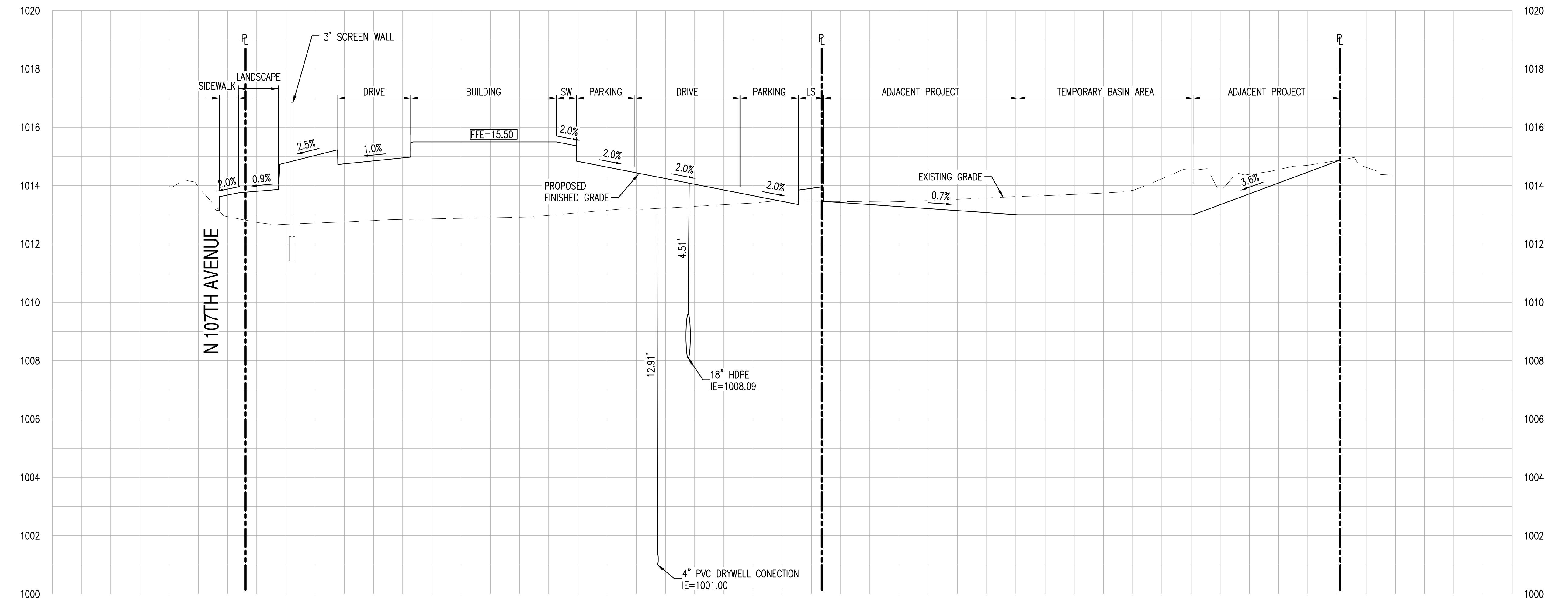


Desert De Oro Foods
INC

8280 E. GELDING DRIVE SUITE 101 SCOTTSDALE, ARIZONA 85260

WWW.AZSEG.COM TEL: 480.588.7226 FAX: 480.589.3534

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.



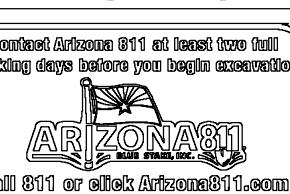
PROJECT	WHATABURGER AVONDALE	
LOCATION	NEC N. 107TH AVE AND W. McDowell Road	
DRAWN	DS	10/21/2022
DESIGNED	LR/DS	10/21/2022
QC	SC	10/21/2022
FINAL QC	LA	10/25/2022
PROJ. MGR.	AF	10/25/2022
DATE:	10/25/2022	
ISSUED FOR:	PERMITS	
REVISION NO.:		
JOB NO.:	201015	
SHEET TITLE:		
SITE CROSS SECTIONS		
PAGE NO.:	12 OF 18	
C3.20		SHEET NO.:



SUSTAINABILITY
ENGINEERING
GROUP

8280 E. GELDING DRIVE SUITE 101 SCOTTSDALE ARIZONA 85260
WWW.AZSEG.COM TEL: 480.388.7226 FAX: 480.259.3534

Desert De Oro Foods
INC



THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

<p>1/2" TOOLED RADIUS NEW CONCRETE PAVING OVER COMPACTED BACKFILL PER CIVIL PLANS PROPOSED ASPHALT PAVEMENT PER CIVIL PLANS</p> <p>PLACE JOINTS AS SHOWN ON CONSTRUCTION IMPROVEMENT PLAN.</p>	<p>1/4" BACKER ROD 1/4" JOINT SEALANT 3/4" D. (MIN.)</p> <p>PLACE JOINTS AS SHOWN ON CONSTRUCTION IMPROVEMENT PLAN. SAWCUT WITHIN 4 HOURS IN HOT WEATHER AND WITHIN 12 HOURS IN COLD WEATHER AFTER THE SLAB HAS BEEN FINISHED IN AN AREA.</p>	<p>1/2" BACKER ROD PROPOSED CONCRETE PAVEMENT PER CIVIL PLANS EXISTING CONCRETE PAVEMENT (FIELD VERIFY THICKNESS) 1/2" EXPANSION MATERIAL WITH CONTINUOUS SEALANT PLACE AGAINST CONCRETE CURBS AND STRUCTURES (BUILDINGS, CANOPY COLUMNS, CATCH BASINS, ETC.)</p>
<p>PAVING TRANSITION</p> <p>1</p>	<p>CONTROL JOINT</p> <p>2</p>	<p>EXPANSION JOINT</p> <p>3</p>
<p>NEW PAVEMENT EXISTING PAVEMENT JOINT/CUT SEALANT 2-1/2"</p>	<p>1/2" BACKER ROD 3/4" X 14" SMOOTH DOWELS @ 12" O.C. W/ HALF GREASED. PROVIDE WIRE BASKET SUPPORT (MUST BE GREASED TO ALLOW EXPANSION) CONCRETE PAVEMENT PER CIVIL PLANS 1/2" EXPANSION MATERIAL WITH CONTINUOUS SEALANT</p> <p>CONSTRUCTION JOINTS MUST BE APPROVED BY OWNER'S ENGINEER. PLACE WHEN CONTINUOUS POUR OPERATIONS ARE SUSPENDED FOR MORE THAN 30 MINUTES.</p>	<p>TRANSITION TO EXISTING PAVEMENT</p> <p>4</p>
<p>1/2" BACKER ROD 3/4" X 14" SMOOTH DOWELS @ 12" O.C. W/ HALF GREASED. PROVIDE WIRE BASKET SUPPORT (MUST BE GREASED TO ALLOW EXPANSION) CONCRETE PAVEMENT PER CIVIL PLANS 1/2" EXPANSION MATERIAL WITH CONTINUOUS SEALANT</p> <p>CONSTRUCTION JOINTS MUST BE APPROVED BY OWNER'S ENGINEER. PLACE WHEN CONTINUOUS POUR OPERATIONS ARE SUSPENDED FOR MORE THAN 30 MINUTES.</p>	<p>CONSTRUCTION JOINT</p> <p>5</p>	

PROJECT	WHATABURGER AVONDALE	
LOCATION	NEC N. 107TH AVE AND W. McDOWELL ROAD	
DRAWN	DS	10/21/2022
DESIGNED	LR/DS	10/21/2022
QC	SC	10/21/2022
FINAL QC	LA	10/25/2022
PROJ. MGR.	AF	10/25/2022
DATE:	10/25/2022	
ISSUED FOR:	PERMITS	
REVISION NO.:	DATE:	
<input type="checkbox"/>		
JOB NO.:	201015	
SHEET TITLE: PAVEMENT JOINTING DETAILS		
PAGE NO.:	SHEET NO.:	
14 OF 18		C3.61

DEVELOPER:
DESERT DE ORO FOODS INC
3845 STOCKTON HILL RD
KINGMAN, AZ 86409
PHONE: 928-530-3607
ATTN: MARK LOWRY
EMAIL: MARKLOWRY@DDOFOODS.COM

CIVIL ENGINEER
SUSTAINABILITY ENGINEERING GROUP
8280 E. GELDING DR., SUITE 101
SCOTTSDALE, AZ 85260
PHONE: 480-588-7226
ATTN: ALI FAKIH
EMAIL: ALI@ZSEG.COM

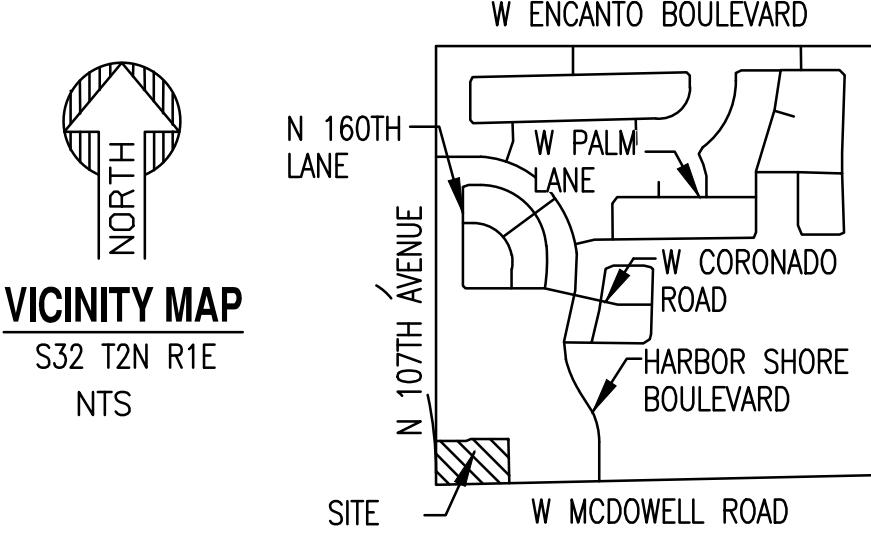
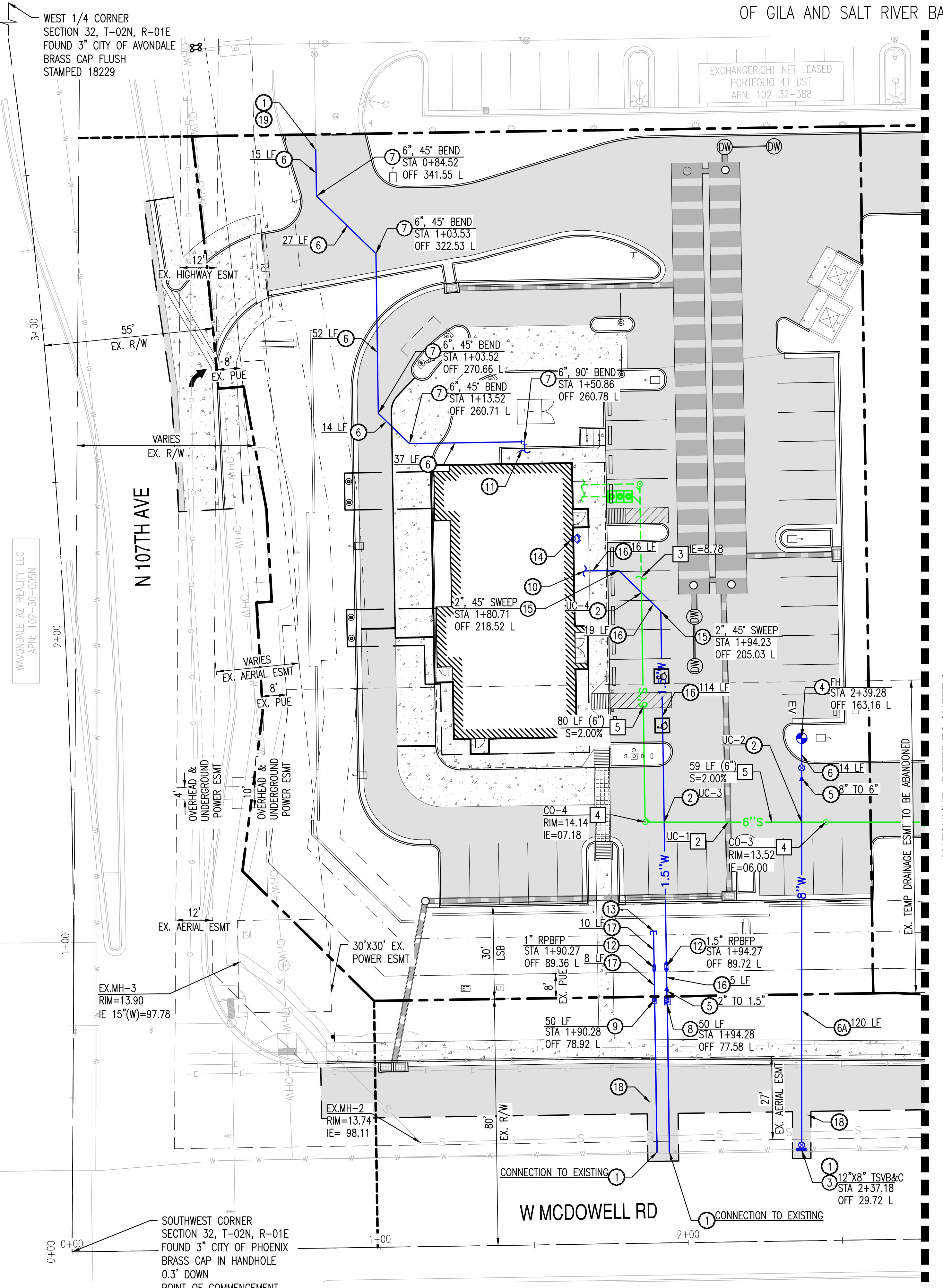
ARCHITECT
SUSTAINABILITY ENGINEERING GROUP
8280 E. GELDING DR., SUITE 101
SCOTTSDALE, AZ 85260
PHONE: 480-237-2510
ATTN: BOB HANSEN
EMAIL: BOB@ZSEG.COM

SURVEYOR
SUPERIOR SURVEYING SERVICES, INC.
2122 W. LONE CACTUS DRIVE, SUITE 11
PHOENIX, AZ 85027
PHONE: 623-869-0223
ATTN: JAMES WILLIAMSON
EMAIL: JAMES@SUPERIORSURVEYING.COM

WHATABURGER AVONDALE

UTILITY PLAN

NEC McDowell Rd & 107th Ave, Avondale, Arizona.
A PORTION OF THE SOUTHWEST QUARTER OF SECTION 32, TOWNSHIP 2 NORTH, RANGE 1 EAST,
OF GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA



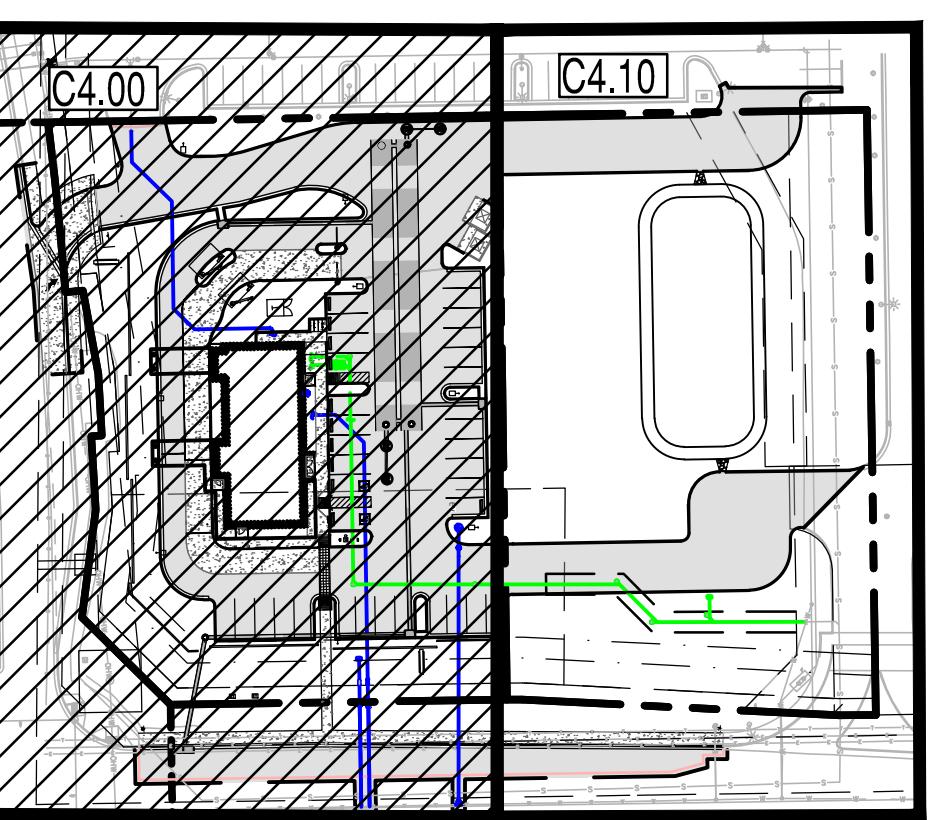
VICINITY MAP
S32 T2N R1E
NTS

BENCHMARK

THE BENCHMARK USED FOR THIS SURVEY IS THE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION POINT 23105-1, UNIQUE POINT ID 3629 BEING THE SOUTH QUARTER CORNER OF SECTION 32, MARKED BY A 3" CITY OF PHOENIX BRASS CAP IN HANDHOLE 0.4' DOWN, LOCATED IN THE INTERSECTION OF 103RD AVENUE AND MCDOWEL ROAD, HAVING AN ELEVATION OF 1019.593 FEET, (NAVD 88).

BASIS OF BEARING

THE BASIS OF BEARING IS THE MONUMENT LINE OF MCDOWELL ROAD, ALSO BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 32, USING A BEARING OF SOUTH 89 DEGREES 53 MINUTES 26 SECONDS EAST, PER THE PLAT OF BIOLIFE AVONDALE, RECORDED IN BOOK 1504 OF MAPS, PAGE 50, RECORDS OF MARICOPA COUNTY, ARIZONA.



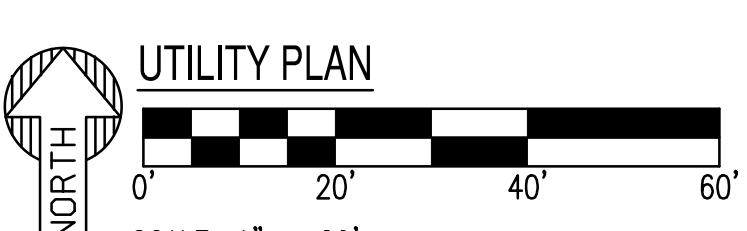
SEWER CONSTRUCTION KEY NOTES

- 2 CONTRACTOR SHALL VERIFY ALL INVERTS AND CLEARANCE OF CROSSING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- 3 REFER TO BUILDING PLUMBING PLANS FOR CONTINUATION.
- 4 FURNISH AND INSTALL SEWER CLEAN-OUT PER MAG STD. DET. 441.
- 5 FURNISH AND INSTALL 6" PVC SDR-35 SEWER LINE. LENGTH AND SLOPE PER PLAN. MAINTAIN 4' MINIMUM COVER.

WATER CONSTRUCTION KEY NOTES

- 1 CONTRACTOR TO VERIFY MATERIAL, SIZE AND LOCATION OF EXISTING WATER LINE PRIOR TO CONSTRUCTION.
- 2 CONTRACTOR TO VERIFY ALL INVERTS AND CLEARANCE OF CROSSING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. REFER TO MAG STD. DET. 404-1 & 404-2 FOR MINIMUM WATER AND SANITARY SEWER SEPARATION.
- 3 FURNISH AND INSTALL TAPPING SLEEVE, VALVE, BOX & COVER PER MAG STD. DET. 340 AND 391-1 TYPE "A" SIZE PER PLAN.
- 4 FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY (COMPLETE WITH GATE VALVE, BOX & COVER) PER MAG STD. DET. 360 AND 362.
- 5 FURNISH AND INSTALL REDUCER. SIZE PER PLAN.
- 6 FURNISH AND INSTALL 6" DUCTILE IRON PIPE, CLASS 350, CEMENT MORTAR LINED, WITH POLYETHYLENE WRAPPING. PROVIDE BLUE POLYETHYLENE LOCATING TAPE ABOVE ALL PUBLIC WATER LINES. MAINTAIN 3' MINIMUM COVER. LENGTH PER PLAN.
- 6A FURNISH AND INSTALL 8" DUCTILE IRON PIPE, CLASS 350, CEMENT MORTAR LINED, WITH POLYETHYLENE WRAPPING. PROVIDE BLUE POLYETHYLENE LOCATING TAPE ABOVE ALL PUBLIC WATER LINES. MAINTAIN 3' MINIMUM COVER. LENGTH PER PLAN.
- 7 INSTALL FITTING WITH RESTRAINED JOINTS PER MAG 303. OR THRUST BLOCK PER MAG STD. DET. 303 & 380. SIZE AND ANGLE PER PLAN.
- 8 FURNISH AND INSTALL 2" TYPE "K" COPPER DOMESTIC SERVICE CONNECTION LENGTH PER PLAN. INSTALL 2" METER BOX PER MAG STD. DET. 320 AND 315 (METER TO BE INSTALLED BY CITY FORCES).
- 9 FURNISH AND INSTALL 1" TYPE "K" COPPER IRRIGATION SERVICE CONNECTION LENGTH PER PLAN. INSTALL 1" METER BOX PER MAG STD. DET. 320 AND 315 (METER TO BE INSTALLED BY CITY FORCES).
- 10 DOMESTIC CONNECTION TO BUILDING, REFER TO MEP PLAN FOR CONTINUATION.
- 11 FIRE CONNECTION TO BUILDING, REFER TO PLAN FOR CONTINUATION.
- 12 FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW ASSEMBLY (RPF), SIZE TO MATCH WATER METER SIZE.
- 13 IRRIGATION CONNECTION. REFER TO LANDSCAPE PLANS FOR CONTINUATION.
- 14 FDC LOCATION, FOR REFERENCE ONLY.
- 15 FURNISH AND INSTALL TYPE "K" COPPER SWEEP, SIZE TO MATCH WATER LINE.
- 16 FURNISH AND INSTALL 1.5" TYPE "K" COPPER DOMESTIC WATER LINE.
- 17 FURNISH AND INSTALL 1" TYPE "K" COPPER IRRIGATION WATER LINE.
- 18 SAWCUT EXISTING PAVEMENT TO PROVIDE STRAIGHT VERTICAL EDGES, FREE FROM IRRREGULARITIES. REPLACE EXISTING PAVEMENT PER MAG STD. DET. 200-1 & 200-2.
- 19 REMOVE PLUG AND CONNECT TO EXISTING 6" STUB.

UTILITY CROSSINGS			
UC-1	18" STORM BOT	8.38	NO EXTRA PROTECTION REQUIRED
	6" SEWER TOP	6.30	
UC-2	6" WATER BOT	9.42	NO EXTRA PROTECTION REQUIRED
	6" SEWER TOP	6.22	
UC-3	1.5" WATER BOT	10.98	NO EXTRA PROTECTION REQUIRED
	6" SEWER TOP	6.71	
UC-4	1.5" WATER BOT	11.53	NO EXTRA PROTECTION REQUIRED
	6" SEWER TOP	8.32	



SCALE: 1" = 20'

EXISTING LEGEND:

- CENTERLINE
- EASEMENT LINE AS NOTED
- CHAINLINK FENCE
- TREE
- EX. S SEWER LINE
- EX. W WATER LINE
- WV WATER VALVE
- GAS GAS LINE
- IRRIGATION LINE
- CB STORM DRAIN LINE
- D STORM CATCH BASIN
- FO STREET LIGHT
- LA STORM MANHOLE
- AF FIBER OPTIC LINE
- CAP SIGN

PROPOSED UTILITY LEGEND:

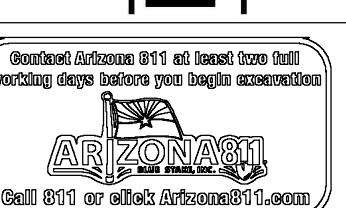
- PROPERTY LINE
- EASEMENT LINE
- 8" W WATER LINE
- 8" S SEWER LINE
- FIRE HYDRANT
- FDC
- WATER METER
- REDUCER
- GATE VALVE
- T.S.V.B.&C.
- BACK FLOW PREVENTER
- CAP
- BUILDING CONNECTION
- SEWER MANHOLE
- SEWER CLEAN OUT



SUSTAINABILITY
ENGINEERING
GROUP

8280 E. GELDING DRIVE SUITE 101 SCOTTSDALE, ARIZONA 85260
WWW.ZSEG.COM TEL: 480-588-7226 FAX: 480-589-3534

Desert De Oro Foods
INC

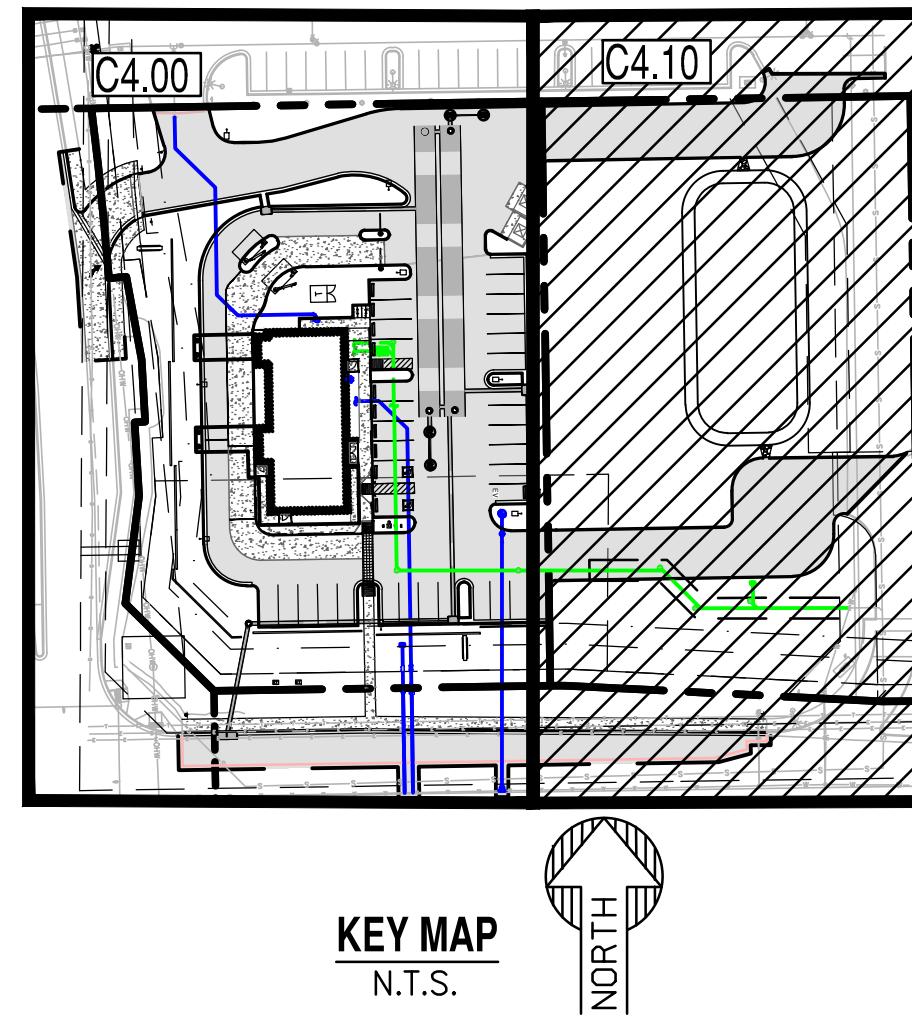
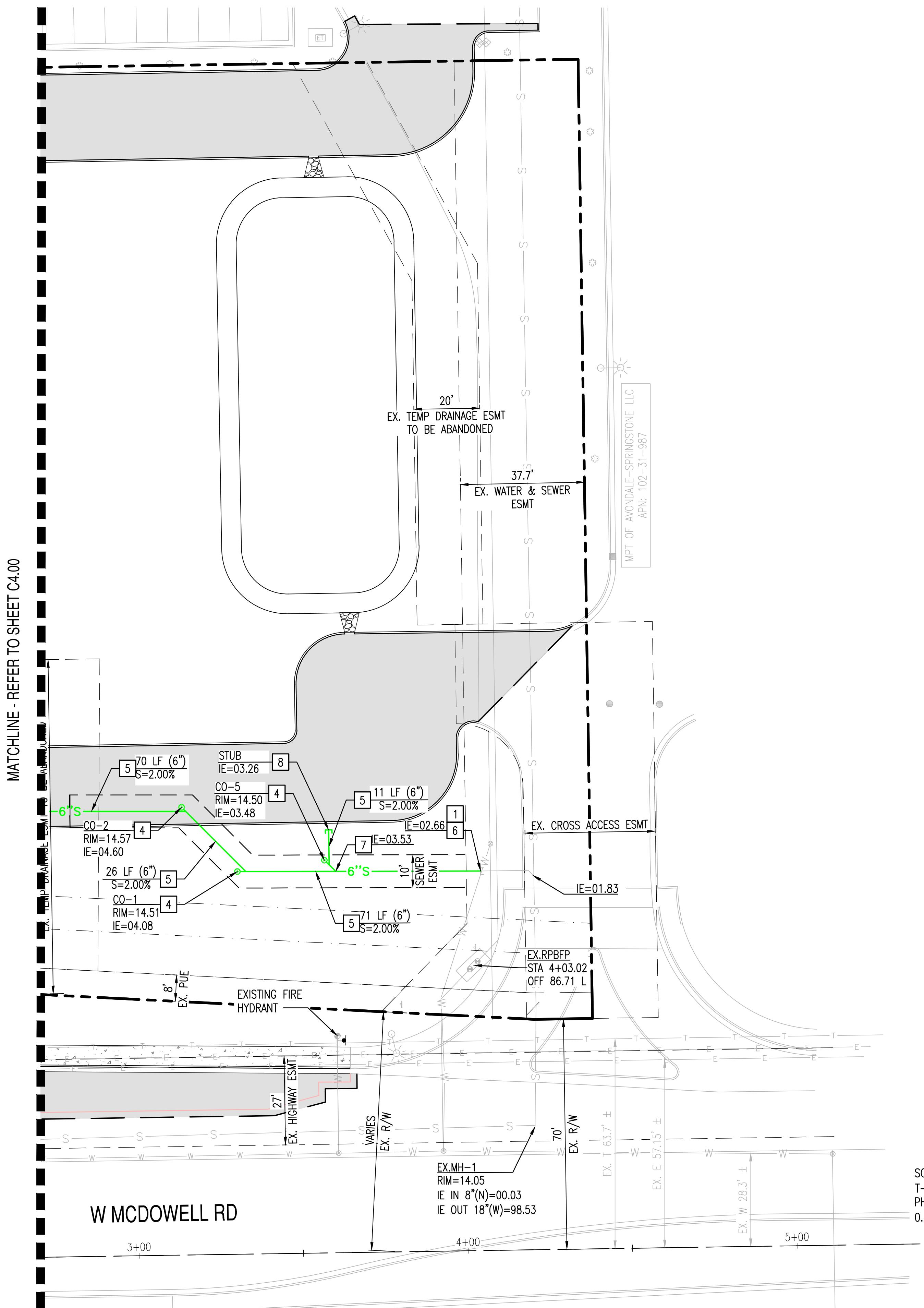


PROJECT	WHATABURGER AVONDALE
LOCATION	NEC N. 107TH AVE AND W. McDowell Road
DRAWN	DS 10/21/2022
DESIGNED	LR/DS 10/21/2022
QC	SC 10/21/2022
FINAL QC	LA 10/25/2022
PROJ. MGR.	AF 10/25/2022
DATE:	10/25/2022
ISSUED FOR:	PERMITS
REVISION NO.:	
DATE:	
JOB NO.:	201015
SHEET TITLE:	UTILITY PLAN
PAGE NO.:	15 OF 18
SHEET NO.:	C4.00

WHATABURGER AVONDALE

UTILITY PLAN

NEC McDOWELL RD & 107TH AVE, AVONDALE, ARIZONA.
A PORTION OF THE SOUTHWEST QUARTER OF SECTION 32, TOWNSHIP 2 NORTH,
RANGE 1 EAST, OF GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY,
ARIZONA



KEY MAP

N.T.S.

A compass rose icon showing a semi-circle with diagonal hatching and the word "NORTH" written vertically below it.

SEWER CONSTRUCTION KEY NOTES

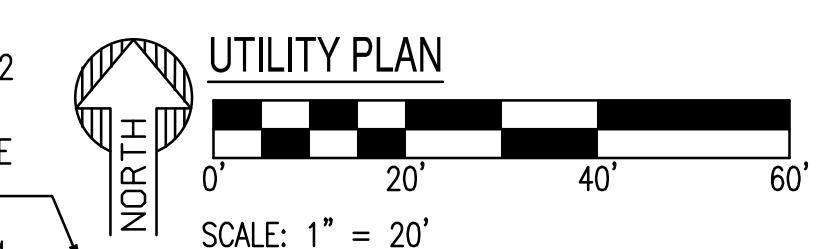
- 1 CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING SANITARY SEWER LINE BEFORE PROCEEDING WITH TRENCHING. CONTRACTOR SHALL CONTACT ENGINEER IF EXISTING SEWER ELEVATION IS HIGHER THAN PROPOSED TIE-IN INVERT PRIOR TO ANY CONSTRUCTION ACTIVITY.
 - 4 FURNISH AND INSTALL SEWER CLEAN-OUT PER MAG STD. DET. 441.
 - 5 FURNISH AND INSTALL 6" PVC SDR-35 SEWER LINE. LENGTH AND SLOPE PER PLAN. MAINTAIN 4' MINIMUM COVER.
 - 6 REMOVE CAP AND CONNECT TO EXISTING STUB.
 - 7 WYE. MATCH SIZE WITH PLAN.
 - 8 PROVIDE PLUG AND MARKER FOR SEWER STUB PER MAG STD. DET. 427. REFER TO BUILDING PLUMBING PLANS FOR CONTINUATION.

PROPOSED UTILITY LEGEND:

	PROPERTY LINE	
	EASEMENT LINE	
	WATER LINE	
	SEWER LINE	
	FIRE HYDRANT	
	FDC	
	WATER METER	
	GATE VALVE	
	T.S.V.B.&C	
	BACK FLOW PREVENTER	
	REDUCER	
	CAP	
	BUILDING CONNECTION	
	SEWER MANHOLE	
	SEWER CLEAN OUT	

EXISTING LEGEND:

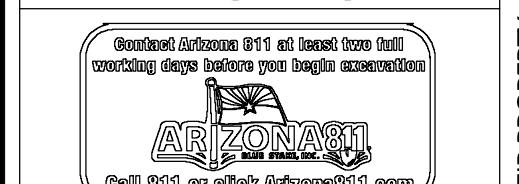
— — — — —	CENTERLINE
— — — — —	EASEMENT LINE AS NOTED
	TREE
— EX. S —	SEWER LINE
(S)	SEWER MANHOLE
— EX. W —	WATER LINE
WV 	WATER VALVE
	FIRE HYDRANT
— GAS —	GAS LINE
— IRR —	IRRIGATION LINE
	SIGN
	STREET LIGHT
— FO —	FIBER OPTIC LINE
	STORM DRAIN LINE
	STORM CATCH BASIN
	STORM MANHOLE



SUSTAINABILITY ENGINEERING GROUP



The logo for Desert De Oro Foods consists of a stylized graphic of a desert landscape with mountains and a river, positioned above the company name "Desert De Oro Foods". The word "Foods" is followed by a small "INC" in parentheses.



WHATABURGER AVONDALE		LOCATION	NEC N. 107TH AVE AND W. McDOWELL ROAD
NED		DS	10/21/2022
QC		LR/DS	10/21/2022
		SC	10/21/2022
		LA	10/25/2022

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

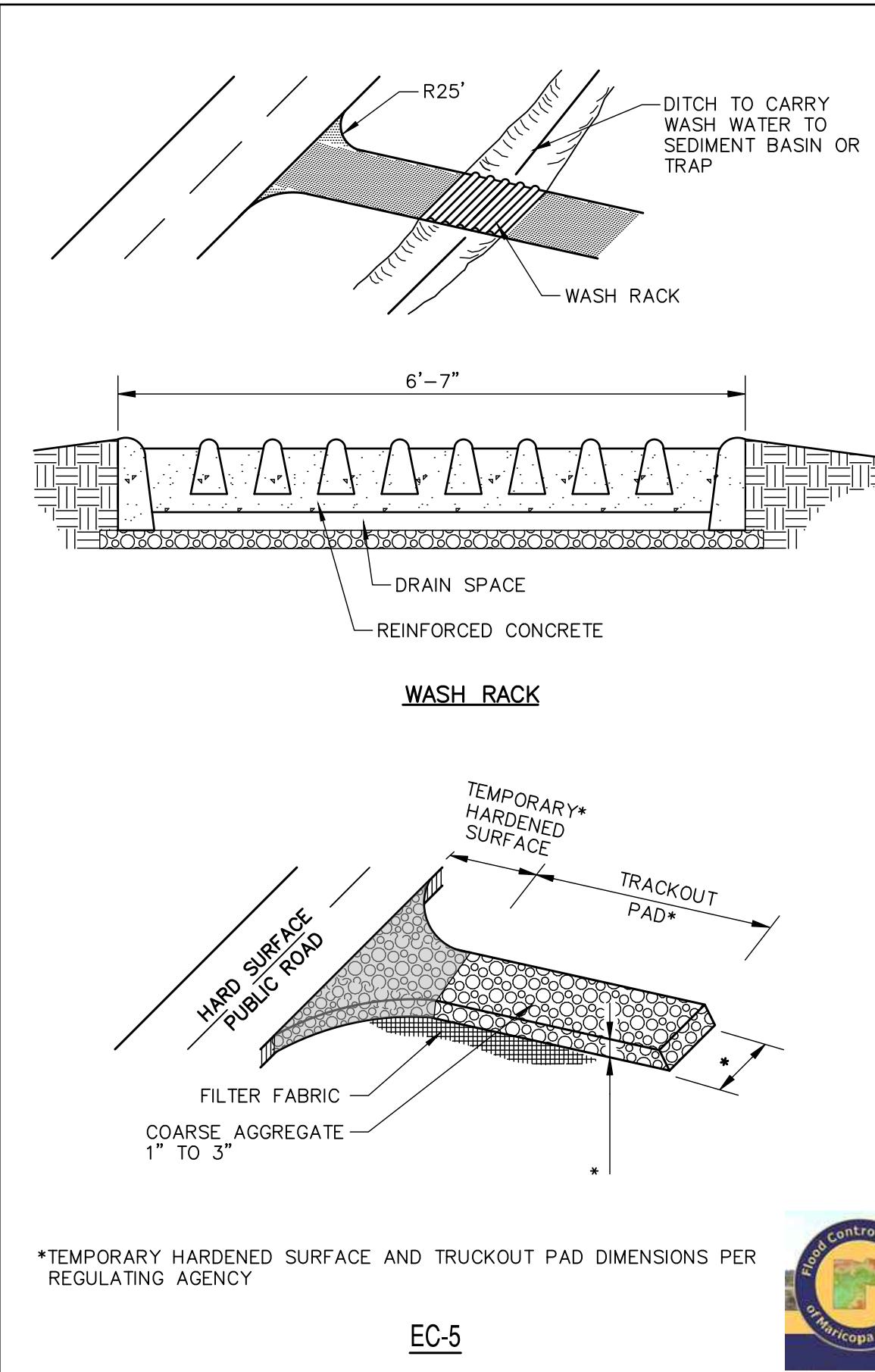


SUSTAINABILITY ENGINEERING GROUP



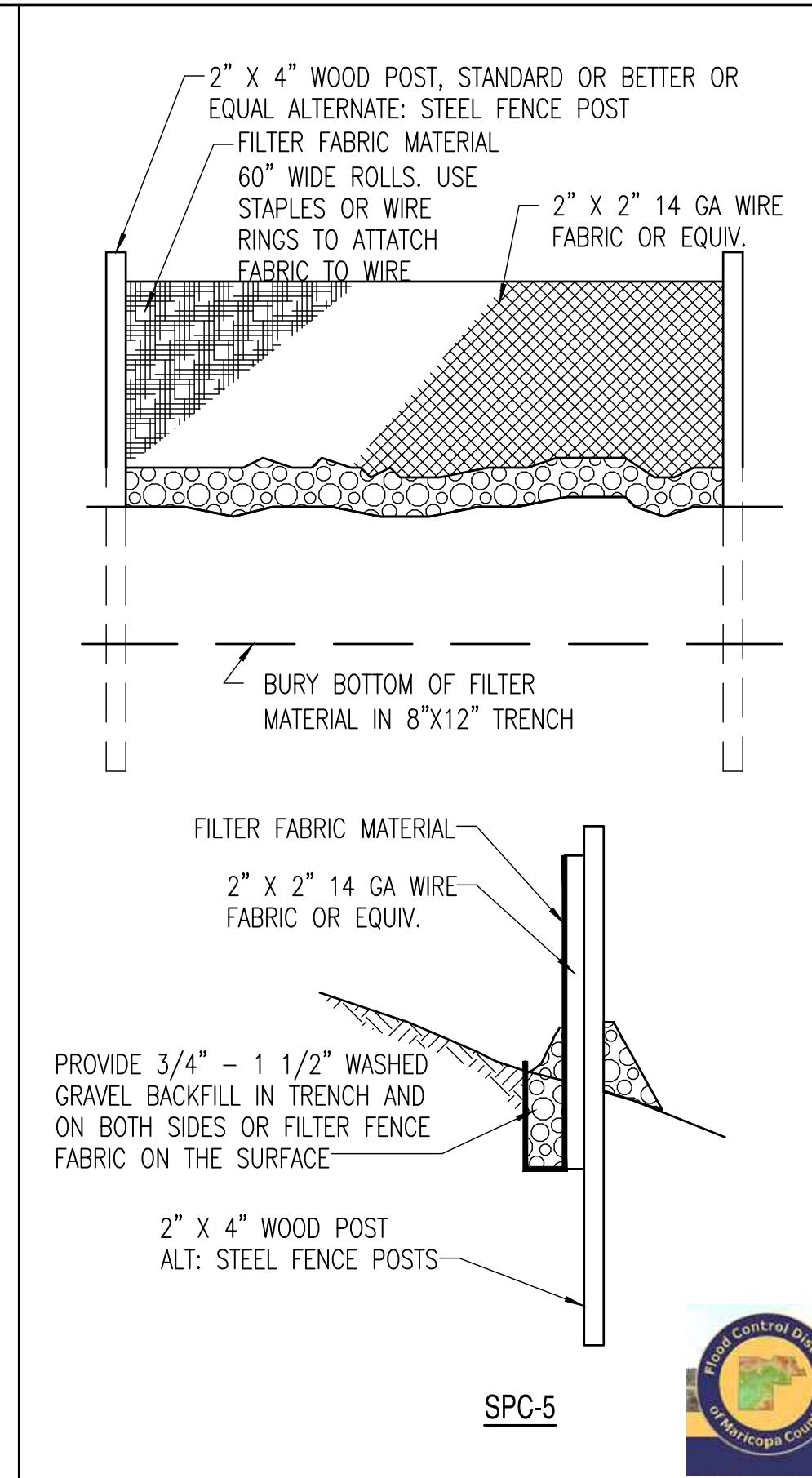
820 E. GELDING DRIVE SUITE 101, SCOTTSDALE, ARIZONA 85260
WWW.AZSEG.COM TEL: 480-388-7226 FAX: 480-389-3534

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF SUSTAINABILITY ENGINEERING GROUP, AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT IS PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE.

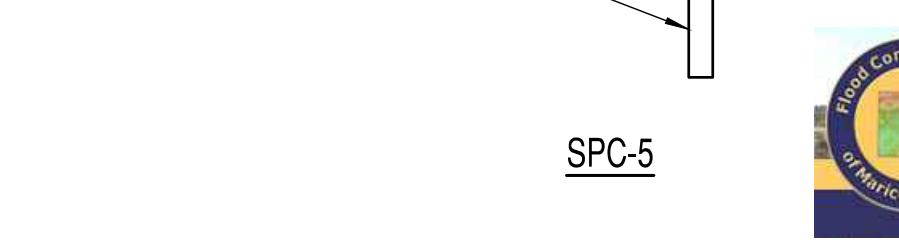


*TEMPORARY HARDENED SURFACE AND TRUCKOUT PAD DIMENSIONS PER REGULATING AGENCY

EC-5



SPC-5



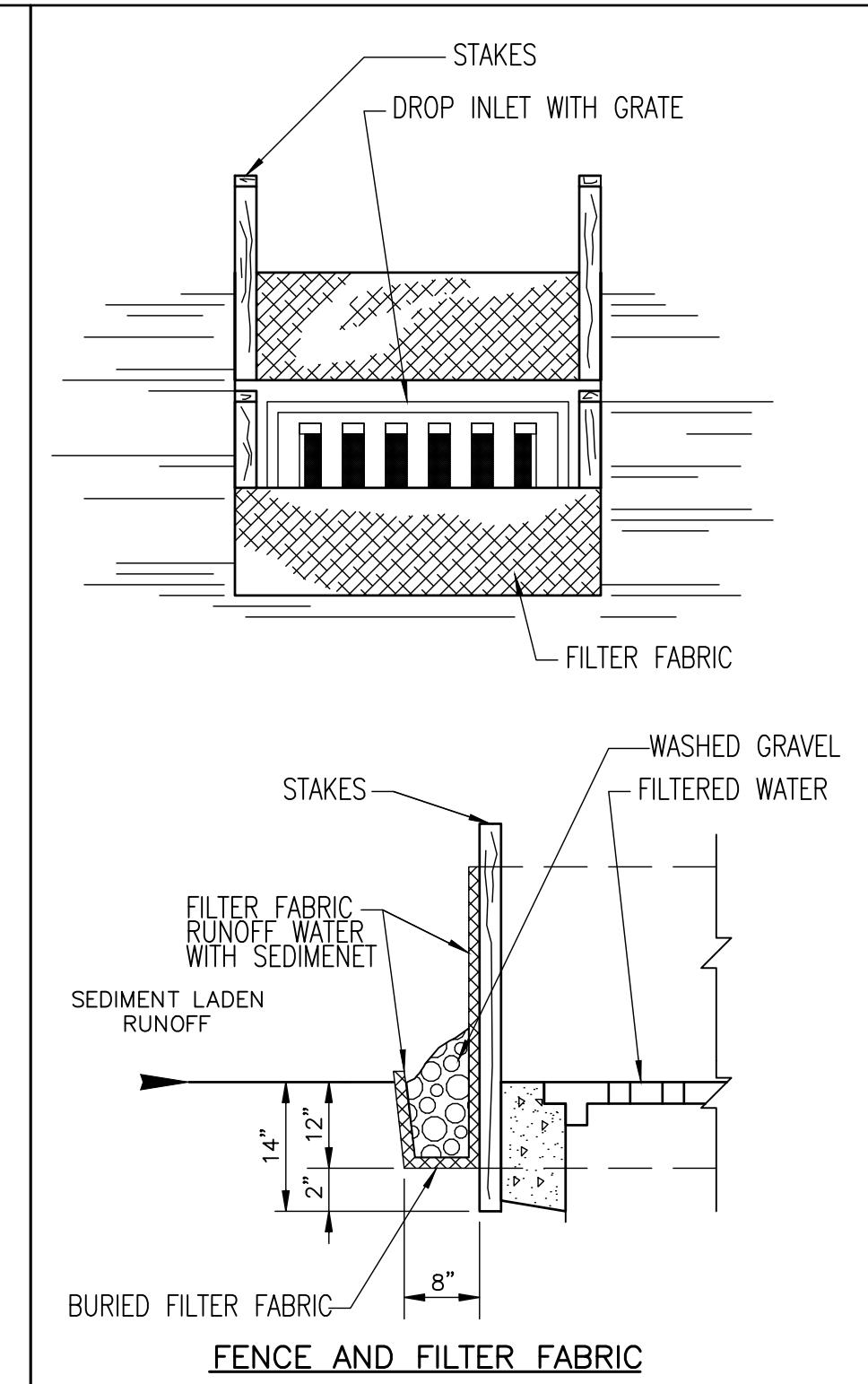
DEFINITION:
A comprehensive plan to limit offsite sedimentation by controlling the sites potential for producing air borne fugitive dust and track-out of sediments.
PURPOSE:
SEDIMENTS WHICH ARE TRANSPORTED FROM CONSTRUCTION SITES BY STORMWATER RUNOFF, WIND, EROSION AND VEHICLE TRACKOUT ARE OFTEN RE-DISPersed TO THE AIR BY SUBSEQUENT VEHICULAR TRAFFIC AND HIGH WINDS. LIKEWISE, THESE SEDIMENTS MAY BE TRANSPORTED BY THE NEXT RAINFALL INTO PUBLIC STORM SEWER SYSTEM.
IMPLEMENTATION OF CONTROL MEASURES TO MINIMIZE THE GENERATION OF FUGITIVE DUST FROM CONSTRUCTION SITES WILL ALSO LIMIT QUANTITY OF SEDIMENTS IN STORMWATER.
APPROPRIATE APPLICATIONS:
PRIMARY SOURCES OF DUST FROM DEVELOPMENT AND CONSTRUCTION ACTIVITIES ARE:
- GRADING OPERATIONS (LAND CLEARING AND EARTHMOVING)
- DRILLING AND BLASTING
- BATCH DROP OPERATIONS (LOADER OPERATION)
- EXPOSED AREAS, CLEARED UNSTABILIZED AREA
- VEHICLE TRAFFIC ON UNPAVED SURFACES
- SEDIMENT TRACKING ON PAVED SURFACES
- BLASTING AND WRECKING ALL OPERATIONS
- SOIL AND DEBRIS STORAGE PILES
THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AIR POLLUTION CONTROL PERMIT REFER TO APPENDIX D FOR ADDITIONAL INFORMATION ON DUST CONTROL IN MARICOPA COUNTY. THE DIVISION OF AIR POLLUTION CONTROL'S APPROACH TO REDUCE AIR POLLUTION FROM CONSTRUCTION SITES WILL BE TO REQUIRE:
- PERMITS REQUIRE THE USE OF REASONABLE AVAILABLE DUST CONTROL MEASURES.
- ENFORCE VISIBLE OPACITY EMISSION LIMITS TO DETERMINE COMPLIANCE.
- REQUIRE DUST CONTROL PLANS FOR CONSTRUCTION OR LAND CLEARING PROJECTS.
- ENFORCEMENT ACTIVITIES WITH PRIORITY GIVEN TO CITIZEN COMPLAINTS.
- REQUIRE CONTRACTORS TO MAINTAIN RECORDS .

PLANNING CONSIDERATIONS:
MANY OF THE REASONABLY AVAILABLE CONTROL MEASURES FOR CONTROLLING FUGITIVE DUST FROM CONSTRUCTION SITES CAN ALSO BE IMPLEMENTED AS BEST MANAGEMENT PRACTICES FOR STORMWATER POLLUTION PREVENTION. THOSE BEST MANAGEMENT PRACTICES INCLUDE:

- PAVE, VEGETATE, OR CHEMICALLY STABILIZE ACCESS POINTS TO PAVED ROADS.
- PROVIDE COVERS FOR TRUCKS TRANSPORTING MATERIALS THAT CONTRIBUTE DUST.
- PROVIDE FOR WET SUPPRESSION OR CHEMICAL STABILIZATION OF EXPOSED SOILS.
- PROVIDE FOR RAPID CLEANUP OF SEDIMENTS DEPOSITED ON PAVED ROADS.
- FURNISH STABILIZED CONSTRUCTION ROAD ENTRANCES AND VEHICLE WASH DOWN AREAS.
- STABILIZE UNPAVED HAUL ROADS, PARKING AND STAGING AREAS.
- IMPLEMENT DUST CONTROL MEASURES FOR MATERIAL STOCKPILES.
- PREVENT DRAINAGE OF SEDIMENT-LADEN STORMWATER ONTO PAVED SURFACES.
- STABILIZE ABANDONED CONSTRUCTION SITES USING VEGETATION OR CHEMICAL STABILIZATION METHODS.
- LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING AND EARTH MOVING OPERATIONS BY SCHEDULING THOSE ACTIVITIES IN PHASES.

Maintenance Requirements:
DUST CONTROL IS AN ONGOING PROCESS DURING SITE CONSTRUCTION. RE-APPLICATION OF DUST CONTROL MEASURE MAY BE NECESSARY UNTIL CONSTRUCTION IS COMPLETE. SEE BMP-45 & BMP-46 FOR DUST CONTROL APPLICATIONS TABLE AND COMMONLY USED CHEMICAL DUST PALLIATIVES

EC-7



SPC-7

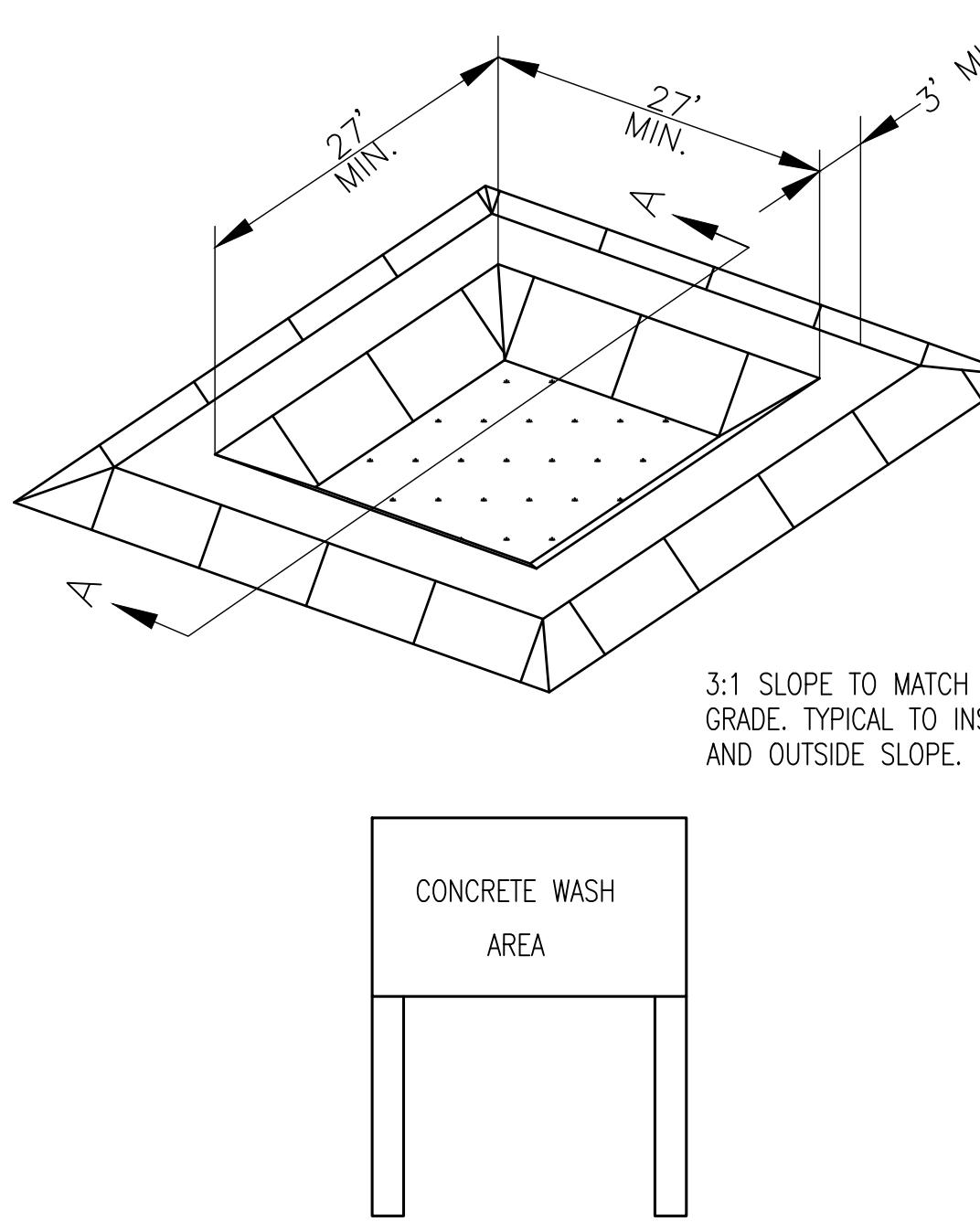


	STABILIZED CONSTRUCTION ENTRANCE	
--	---	--

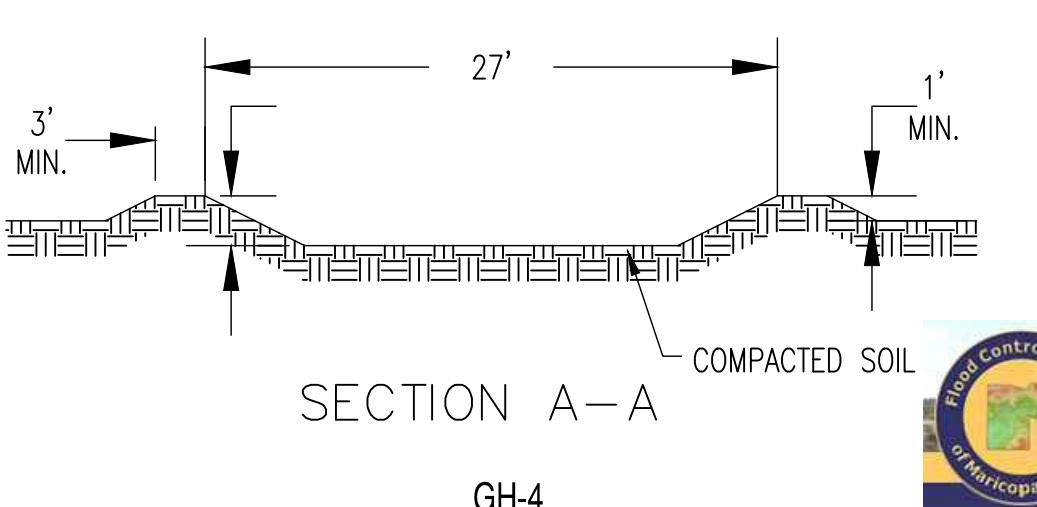
	SILT FENCE	
--	-------------------	--

	DUST CONTROL	
--	---------------------	--

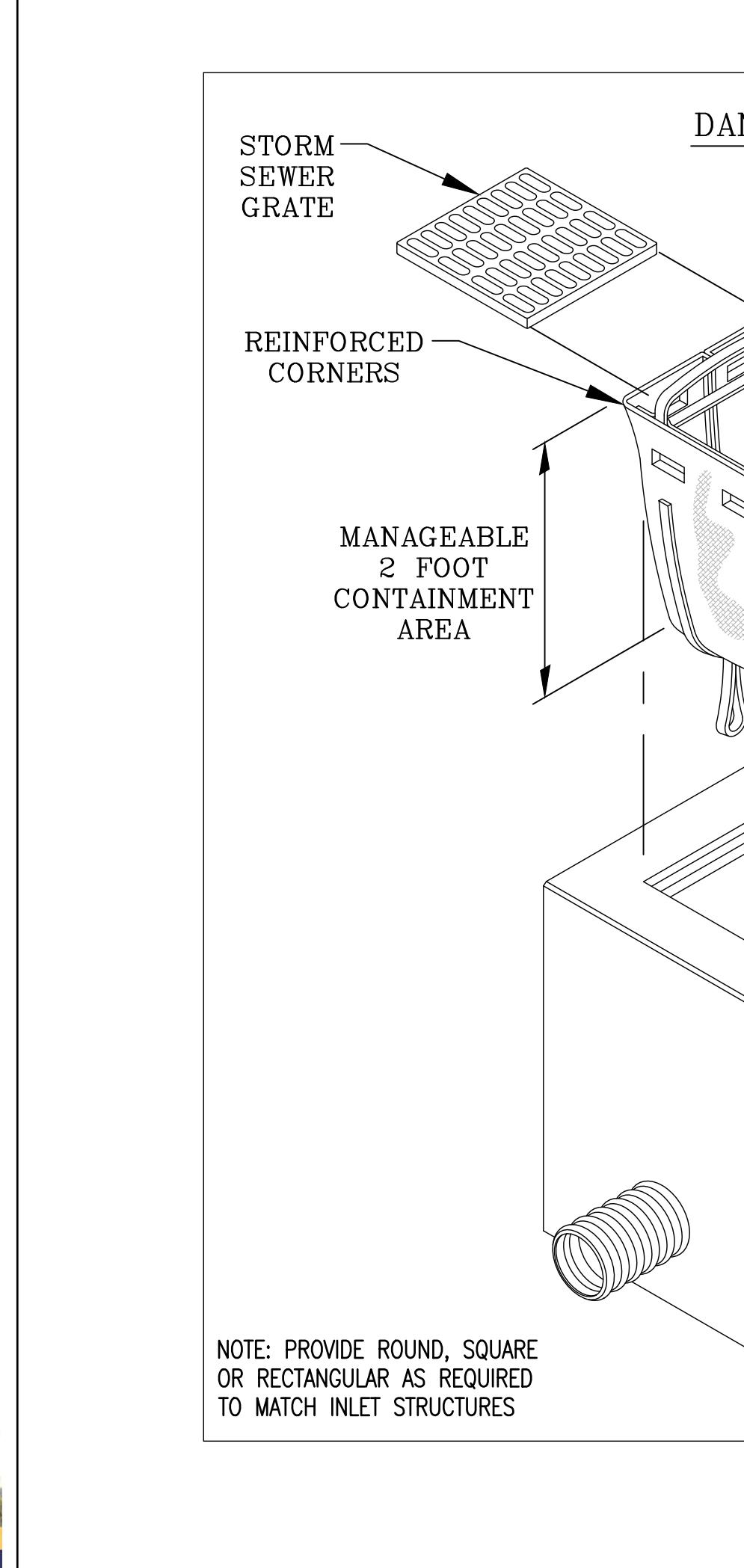
	DROP INLET PROTECTION PRE-PAVED	
--	--	--



4'x6' SIGN TO DESIGNATE LOCATION OF CONCRETE WASH AREA.
BLACK LETTER ON WHITE BOARD.
LETTER SIZE APPROX. 3.5X6 INCHES.



GH-4



SECTION A-A



DANDY SACK™ SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

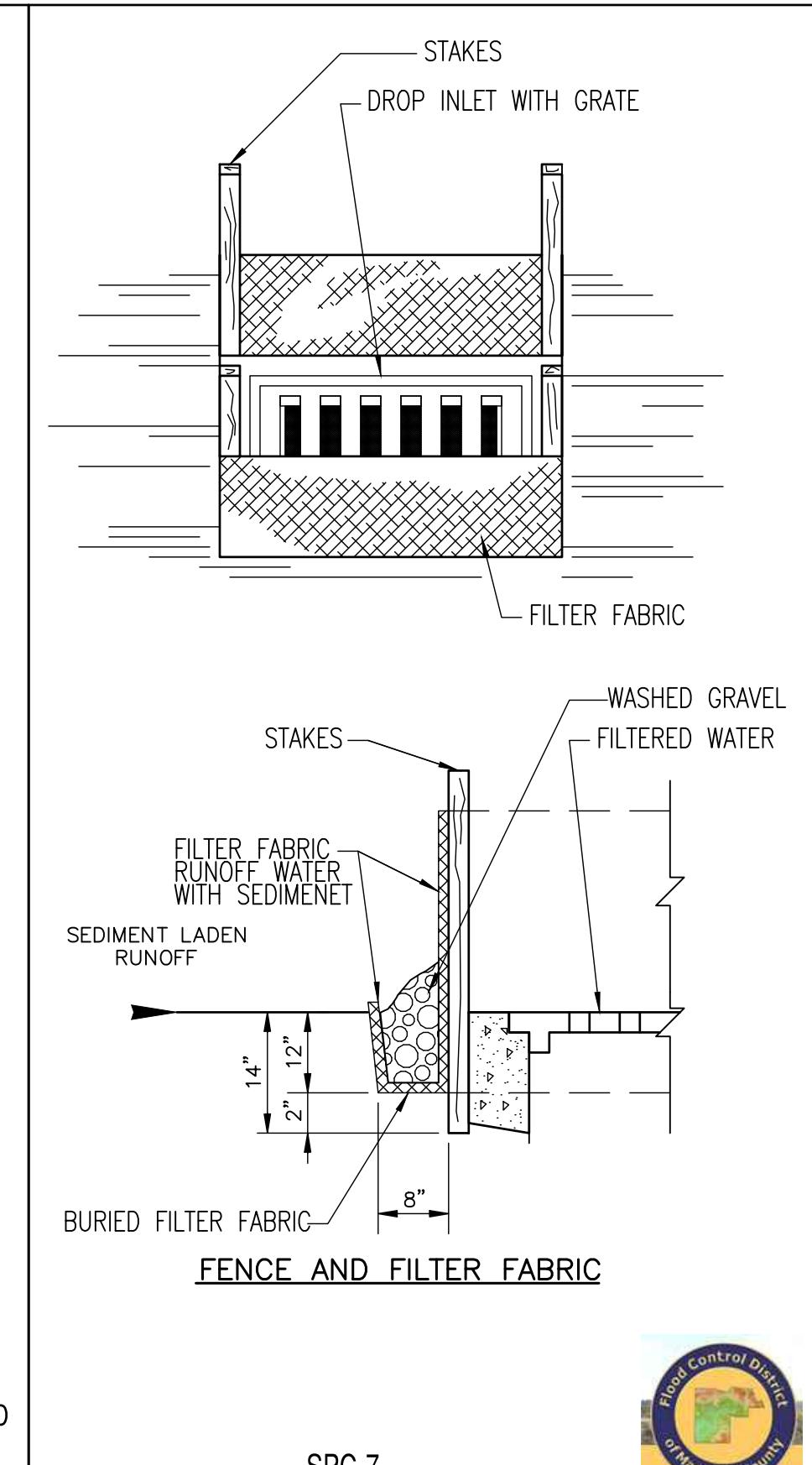
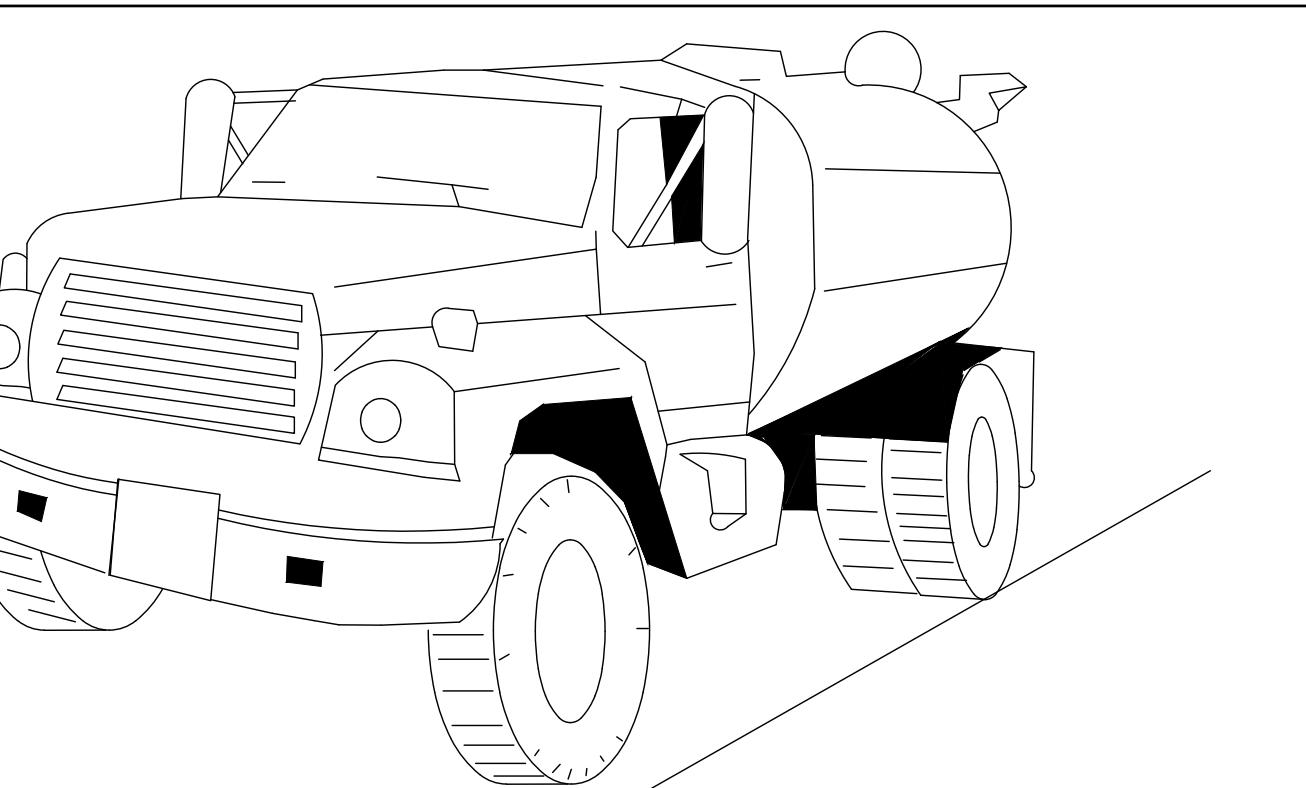
Mechanical Properties	Test Method	Units
Grab Tensile Strength	ASTM D 4632	kN (lbs)
Grab Tensile Elongation	ASTM D 4632	%
Puncture Strength	ASTM D 4833	kN (lbs)
Mullen Burst Strength	ASTM D 3786	kPa (psi)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)
UV Resistance	ASTM D 4355	%
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)
Flow Rate	ASTM D 4491	1/min/m²(gal/min/ft²)
Permeability	ASTM D 4491	Sec⁻¹

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units
Grab Tensile Strength	ASTM D 4632	kN (lbs)
Grab Tensile Elongation	ASTM D 4632	%
Puncture Strength	ASTM D 4833	kN (lbs)
Mullen Burst Strength	ASTM D 3786	kPa (psi)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)
UV Resistance	ASTM D 4355	%
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)
Flow Rate	ASTM D 4491	1/min/m²(gal/min/ft²)
Permeability	ASTM D 4491	Sec⁻¹

*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

DANDY SACK
DROP INLET PROTECTION POST-PAVED

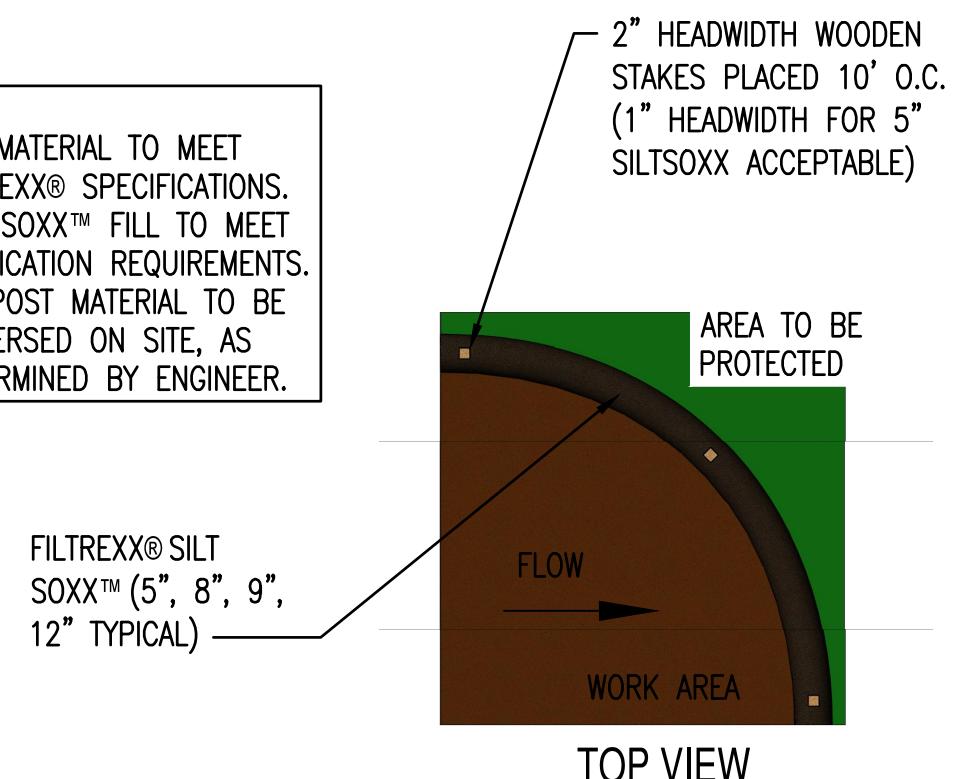


SPC-7

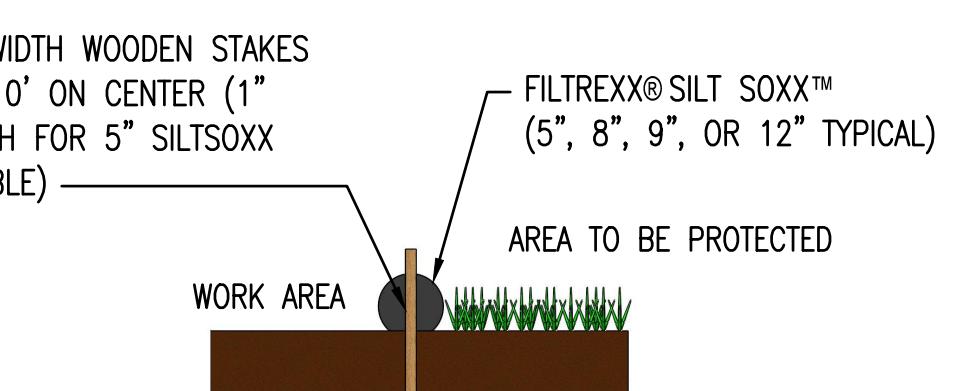


FILTREXX® SILT SOXX™

- NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
 2. SILT SOXX™ FILL TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

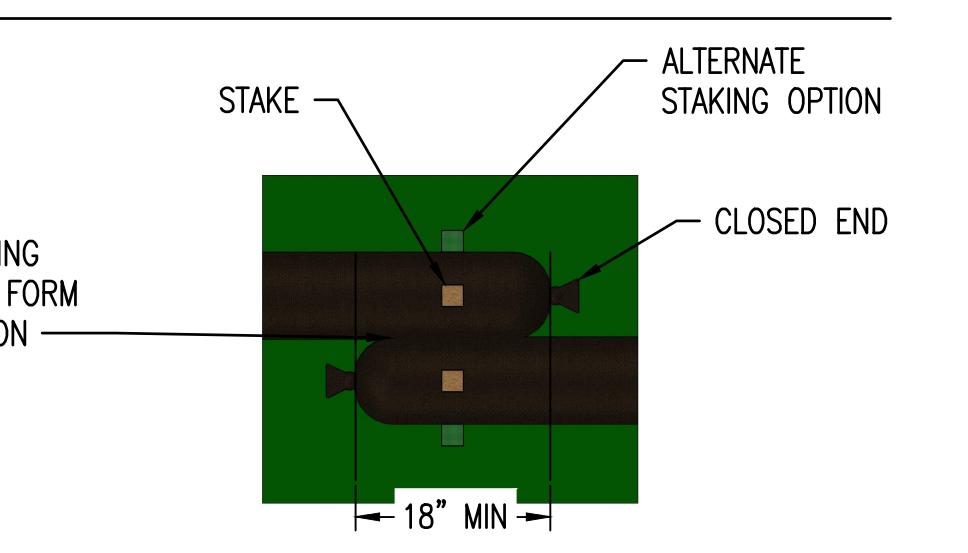


TOP VIEW



SECTION VIEW

COMPOST SOCK CONNECTION/ATTACHMENT DETAIL



18' MIN

	FILTREXX SILT SOCK	
--	---------------------------	--

PROJECT	WHATABURGER AVONDALE
LOCATION	NEC N. 107TH AVE AND W. McDOWELL ROAD
DRAWN	DS 10/21/2022
DESIGNED	LR/DS 10/21/2022
QC	SC 10/21/2022
FINAL QC	LA 10/25/2022
PROJ. MGR.	AF 10/25/2022
DATE:	10/25/2022
ISSUED FOR:	PERMITS
REVISION NO.:	
JOB NO.:	201015
SHEET TITLE:	STORM WATER POLLUTION AND PREVENTION PLAN DETAILS
PAGE NO.:	18 OF 18
SHEET NO.:	C5.10