SITE DEVELOPMENT PLANS FOR: **CLAY MADSEN SOCCER FIELD PROJECT**

DESIGN PROFESSIONALS:

CIVIL ENGINEER:

ANTONIO A. PRETE, P.E. WAELTZ & PRETE, INC. 3000 JOE DIMAGGIO BLVD. #72 ROUND ROCK, TEXAS 78665 PH: (512) 505-8953 EMAIL: tony@w-pinc.com

KATIE BAKER, RLA CITY OF ROUND ROCK 301 W BAGDAD AVE ROUND ROCK, TX 78664 PH: (512) 341-3355 EMAIL: kbaker@roundrocktexas.gov

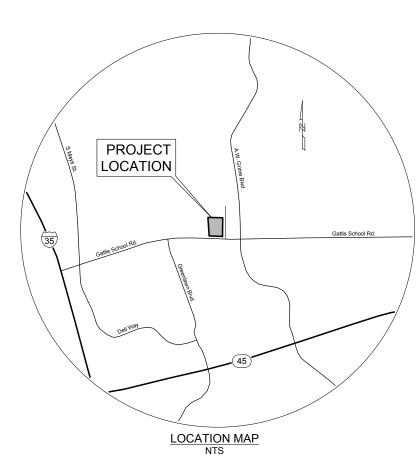
PARK DEVELOPMENT MANAGER:

CITY OFFICIALS:

CRAIG MORGAN	MAYOR
TAMMY YOUNG	COUNCIL MEMBER, PLACE 1
RENE FLORES	COUNCIL MEMBER, PLACE 2
FRANK LEFFINGWELL	COUNCIL MEMBER, PLACE 3
WILL PECKHAM	COUNCIL MEMBER, PLACE 4
WRIT BAESE	COUNCIL MEMBER, PLACE 5
KRIS WHITFIELD	COUNCIL MEMBER, PLACE 6
LAURIE HADLEY	CITY MANAGER
RICK ATKINS	PARKS & RECREATION DIRECTOR

ROUND ROCK EAST, SECTION 1, LOT 1 (2.382 AC), LOT 2 (2.487 AC), AND LOT 11 (4.670 AC)

> 1700 GATTIS SCHOOL RD. ROUND ROCK, TEXAS 78664 DECEMBER, 2016



NOTES:

ENGINEER.

- 1. THESE PLANS ARE NOT TO BE CONSIDERED FINAL FOR CONSTRUCTION UNTIL ACCEPTED BY THE CITY. CHANGES MAY BE REQUIRED PRIOR TO APPROVAL.
- 2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 3. NO PORTION OF THIS SITE IS WITHIN THE FEMA 1% ANNUAL CHANCE FLOODPLAIN, PER PANEL NUMBER 4891C0495E, DATED SEPTEMBER 26, 2008.
- 4. THIS SITE IS NOT LOCATED WITHIN THE EDWARDS AQUIFER RECHARGE ZONE. SITE DISTURBANCE IS GREATER THAN ONE ACRE. THEREFORE A SWPPP IS REQUIRED.
- 5. THIS SITE IS REQUESTING TO PARTICIPATE IN THE CITY OF ROUND ROCK'S REGIONAL STORMWATER MANAGEMENT PROGRAM.



JOB NO.: 010-021

ALL RESPONSIBILITY FOR THE ADEQUACY

ACCEPTED FOR CONSTRUCTION:

CITY OF ROUND ROCK, TEXAS PARKS AND RECREATION DEPARTMENT

RECORDED PLAT DOC # (UNPLATTED) METER SERIAL NO. UTILITY BILL ACCOUNT NO.

DEVELOPER:

DATE

CITY OF ROUND ROCK PARKS AND RECREATION DEPARTMENT 301 W. BAGDAD ST., STE. 250 ROUND ROCK, TX 78664 PH: (512) 218-5540 EMAIL: dbuzzell@round-rock.tx.us

ENGINEER:



3000 JOE DIMAGGIO BLVD. #72 ROUND ROCK, TX, 78665 PH (512) 505-8953 FIRM TX. REG. #F-10308

OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS. THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN

SHEET INDEX

SHT. No. DESCRIPTION

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COVER SHEET GENERAL NOTES **ORIENTATION MAP** EXISTING CONDITIONS/ DEMOLITION PLAN EROSION/ SEDIMINTATION CONTROL PLAN SITE / DIMENSIONAL CONTROL PLAN GRADING PLAN PAVING, SIGNAGE, AND STRIPING PLAN DRAINAGE AREA MAP UTILITY PLAN WASTEWATER LINE PROFILE ESC CONTROL DETAILS SITE DETAILS (1 OF 3) SITE DETAILS (2 OF 3) SITE DETAILS (3 OF 3) UTILITY DETAILS (1 OF 2) UTILITY DETAILS (2 OF 2) **IRRIGATION PLAN IRRIGATION DETAILS IRRIGATION NOTES**

STATE OF TEXAS

COUNTY OF WILLIAMSON

I, ANTONIO A. PRETE, P.E., DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS DESCRIBED HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE SUBDIVISION AND BUILDING REGULATION ORDINANCES AND STORMWATER DRAINAGE POLICY ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.



0850017 DATE

ANTONIO A. PRETE, P.E. STATE OF TEXAS #93759

/ISIO	NS:				
No.	Date	Revision		ACC.	DATE

City of Round Rock Standard	contractor.	WATER AND WASTEWATER NOTES:	equipment (including pumps and gauges),	EROSION AND SEDIMENTATION
Construction Notes	2 In accordance with the U. S. Occupational	1. Pipe material for water mains shall be PVC	supplies and labor necessary to perform the tests. Quality and pressure testing shall be	CONTROL NOTES:
Dated May 05, 2006	Safety and Health Administration regulations,	(AWWA C-900, min. class 200), or Ductile Iron	monitored by City of Round Rock personnel.	1. Erosion control measures, site work and
	when persons are in trenches 4-feet deep or more, adequate means of exit, such as a ladder	(AWWA C-100, min. class 200). Water services		restoration work shall be in accordance with the
GENERAL NOTES:	or steps, must be provided and located so as to		13. The Contractor shall coordinate testing with the	City of Round Rock Erosion and Sedimentation
GENERAL NOTES.	require no more than 25 feet of lateral travel.	200 psi, DR 9).	City of Inspector and provide no less than 24	Control Ordinance.
1. All construction shall be in accordance with the			hours notice prior to performing sterilization,	2. All slopes shall be sodded or seeded with
City of Round Rock Standard Specifications	3 If trench safety system details were not provided in the plans because trenches were anticipated	2. Pipe material for pressure wastewater mains	quality testing or pressure testing.	approved grass, grass mixtures or ground cover
Manual.	to be less than 5 feet in depth and during	shall be PVC (AWWA C-900, min. class 150),		suitable to the area and season in which they
2. Any existing utilities, pavement, curbs,	construction it is found that trenches are in fact	or Ductile Iron (AWWA C-100, min. class 200).	14. The Contractor shall not open or close any	are applied.
sidewalks, structures, trees, etc., not planned	5 feet or more in depth or trenches less than 5	Pipe material for gravity wastewater mains shall be PVC (ASTM D2241 or D3034, max. DR-26),	valves unless authorized by the City of Round Rock.	3. Silt fences, rock berms, sedimentation basins
for destruction or removal that are damaged or removed shall be repaired or replaced at his	feet in depth are in an area where hazardous ground movement is expected, all construction	Ductile Iron (AWWA C-100, min. class 200).	NOCK.	and similarly recognized techniques and
expense.	shall cease, the trenched area shall be		15. All valve boxes and covers shall be cast iron.	materials shall be employed during construction to prevent point source sedimentation loading
	barricaded and the Engineer notified	3. Unless otherwise accepted by the City		of downstream facilities. Such installation shall
3. The Contractor shall verify all depths and	immediately. Construction shall not resume until appropriate trench safety system details, as	Engineer, depth of cover for all lines out of the	16. All water service, wastewater service and valve	be regularly inspected by the City of Round
locations of existing utilities prior to any construction. Any discrepancies with the	designed by a professional engineer, are	pavement shall be 42" min., and depth of cover	locations shall be appropriately marked as	Rock for effectiveness. Additional measures
construction plans found in the field shall be	retained and copies submitted to the City of	for all lines under pavement shall be a min. of	follows:	may be required if, in the opinion of the City Engineer, they are warranted.
brought immediately to the attention of the	Round Rock.	30" below subgrade.	water service "W" on top of curb	
Engineer who shall be responsible for revising the plans as appropriate.	STREET AND DRAINAGE NOTES:	4. All fire hydrant leads shall be ductile iron pipe	water service w on top of curb	4. All temporary erosion control measures shall
the plans as appropriate.	UTREET AND DIVANAGE NOTED.	(AWWA C-100, min. class 200).	wastewater service "S" on top of curb	not be removed until final inspection and approval of the project by the Engineer. It shall
4. Manhole frames, covers, valves, cleanouts, etc.	1. All testing shall be done by an independent	(be the responsibility of the Contractor to
shall be raised to finished grade prior to final	laboratory at the Owner's expense. Any	5. All iron pipe and fittings shall be wrapped with	valve "V" on face of curb	maintain all temporary erosion control
paving construction.	retesting shall be paid for by the Contractor. A	minimum 8-mil polyethylene and sealed with		structures and to remove each structure as approved by the Engineer.
5. The Contractor shall give the City of Round	City inspector shall be present during all tests.	duct tape or equal accepted by the City	Tools for marking the curb shall be provided by	approved by the Engineer.
Rock 48 hours notice before beginning each	Testing shall be coordinated with the City	Engineer.	the Contractor. Other appropriate means of	5. All mud, dirt, rocks, debris, etc., spilled, tracked
phase of construction. Telephone (512) 801-4460 (Inspectors).	inspector and he shall be given a minimum of 24 hours notice prior to any testing. Telephone	6. The Contractor shall contact the City Inspector	marking service and valve locations shall be provided in areas without curbs. Such means of	or otherwise deposited on existing paved
	(512) 218-3241 (Inspections).	at (512) 218-3241 to coordinate utility tie-ins	marking shall be as specified by the Engineer	streets, drives and areas used by the public shall be cleaned up immediately.
6. All areas disturbed or exposed during		and notify him at least 48 hours prior to	and accepted by the City of Round Rock.	
construction shall be revegetated in accordance with the plans and specifications. Revegetation	2. Backfill behind the curb shall be compacted to	connecting to existing lines.		
of all disturbed or exposed areas shall consist	obtain a minimum of 95% maximum density to		17. Contact City of Round Rock Development	
of sodding or seeding, at the Contractor's	within 3" of top of curb. Material used shall be	7. All manholes shall be concrete with cast iron	Services Office at (512) 218-7043 for assistance in obtaining existing water and	
option. However, the type of revegetation must	primarily granular with no rocks larger than 6" in	ring and cover. All manholes located outside of	wastewater locations.	
equal or exceed the type of vegetation present before construction.	the greatest dimension. The remaining 3" shall	the pavement shall have bolted covers. Tapping		
	be clean topsoil free from all clods and suitable for sustaining plant life.	of fiberglass manholes shall not be allowed.	 The City of Round Rock Fire Department shall be notified 48 hours prior to testing of any 	ABBREVIATIONS: LEGEND
7. Prior to any construction, the Engineer shall	for sustaining plant life.	8. The Contractor must obtain a bulk water permit	building sprinkler piping in order that the Fire	
convene a preconstruction conference between the City of Round Rock, himself, the Contractor,	3. Depth of cover for all crossings under pavement	or purchase and install a water meter for all	Department may monitor such testing.	BOT = BOTTOM REBAR WITH "BAKER CL = CLASS B ALCKI EN" CAP EQUIND
other utility companies, any affected parties and	including gas, electric, telephone, cable tv,	water used during construction. A copy of this	19. Sand, as described in Specification item 510	CNC = TOP OF CONCRETE
any other entity the City or Engineer may	water services, etc., shall be a minimum of 30"	permit must be carried at all times by all who	pipe, shall not be used as bedding for water and	DET = DETENTION -++++++++++++++++++++++++++++++++++++
require.	below subgrade.	use water.	wastewater lines. Acceptable bedding materials	DI = DUCTILE IRON ew WATER METER
8. The Contractor and the Engineer shall keep	4 Other statistic of where shall be availed at a slove		are pipe bedding stone, pea gravel and in lieu	ESMT = EASEMENT
accurate records of all construction that	 Street rights-of-way shall be graded at a slope of 1/4" per foot toward the curb unless 	 Line flushing or any activity using a large quantity of water must be scheduled with the 	of sand, a naturally occurring or manufactured stone material conforming to ASTM C33 for	FG = FINISHED GROUND
deviates from the plans. The Engineer shall	otherwise indicated. However, in no case shall	civil inspector, telephone (512) 218-3241.	stone quality and meeting the following	FH = FIRE HYDRANT Owned WASTEWATER
furnish the City of Round Rock accurate "As-Built" drawings following completion of all	the width of right-of-way at 1/4" per foot slope		gradation specification:	FPS = FEET PER SECOND
construction. These "As-Built" drawings shall	be less than 10 feet unless a specific request	10. The Contractor, at his expense, shall perform	Sieve Size Percent Retained By Weight	FLG = FLANGE
meet with the satisfaction of the Engineering	for an alternate grading scheme is made to and	sterilization of all potable water lines		GV = GATE VALVE HPT = HIGHPOINT
and Development Services Department prior to final acceptance.	accepted by the City of Round Rock	constructed and shall provide all equipment	1/2" 0	LOC = LIMITS OF CONSTRUCTION & POWER POLE
	Engineering and Development Services	(including test gauges), supplies (including	3/8" 0-2 #4 40-85	LPT = LOW POINT
9. The Round Rock City Council shall not be	Department.	concentrated chlorine disinfecting material), and necessary labor required for the sterilization	#10 95-100	MJ = MECHANICAL JOINT
petitioned for acceptance until all necessary easement documents have been signed and	5. Barricades built to City of Round Rock	procedure. The sterilization procedure shall be		NG = NATURAL GROUND SPRLINKLER PAV = TOP OF PAVEMENT SCONTROL VALVE
recorded.	standards shall be constructed on all dead-end	monitored by City of Round Rock personnel.	20. The Contractor is hereby notified that connecting to, shutting down, or terminating	PDWF = PEAK DRY WEATHER FLOW BM #1
	streets and as necessary during construction to	Water samples will be collected by the City of	existing utility lines may have to occur at	PWWF = PEAK WET WEATHER FLOW
10. When construction is being carried out within	maintain job and public safety.	Round Rock to verify each treated line has	off-peak hours. Such hours are usually outside	PVC = POLYVINYL CHLORIDE - X X FENCE - BARB-WIRE REF = REFERENCE
easements, the Contractor shall confine his work to within the permanent and any		attained an initial chlorine concentration of 50	normal working hours and possibly between 12	RS = RESILIENT SEAT
temporary easements. Prior to final acceptance,	6. All R.C.P. shall be minimum class III.	ppm. Where means of flushing is necessary,	a.m. and 6 a.m.	SCH = SCHEDULE
the Contractor shall be responsible for removing	7. The subgrade material for the streets shown	the Contractor, at his expense, shall provide flushing devices and remove said devices prior	21. All wastewater construction shall be in	SLAB = TOP OF SLAB
all trash and debris within the permanent and temporary easements. Clean-up shall be to the	herein was tested by: N/A	to final acceptance by the City of Round Rock.	accordance with the Texas Commission on	SS = STORM SEWER EDGE OF PAVEMENT SSL = STORM SEWER LINE
satisfaction of the City Engineer.			Environmental Quality (TCEQ) Regulations, 30	SW = TOP OF SIDEWALKGAS LINE
		11. Sampling taps shall be brought up to 3 feet	TAC Chapter 213 and 217, as applicable.	TC = TOP OF CURB TG = TOP OF GRATEUEUNDERGROUND ELEC.
11. Prior to any construction, the Contractor shall	accordance with the current City of Round Rock	above grade and shall be easily accessible for	Whenever TCEQ and City of Round Rock Specifications conflict, the more stringent shall	TOF = TOP OF FOOTINGUE UNDERGROUND ELEC.
apply for and secure all proper permits from the appropriate authorities.	design criteria. The paving sections are to be	City personnel. At the Contractor's request, and	apply.	TOW = TOP OF WALL
. F.F F.	constructed as follows: N/A	in his presence, samples for bacteriological testing will be collected by the City of Round	- + + 2	TP = TREE PROTECTION
12. Available benchmarks (City of Round Rock		Rock not less than 24 hours after the treated	TRAFFIC MARKING NOTES:	TYP = TYPICALW WASTEWATER LINE
Datum) that may be utilized for the construction of this project are described as follows:	The Geotechnical Engineer shall inspect the	line has been flushed of the concentrated		WL = WATER LINE WQ = WATER QUALITY
(See Sheet C-4)	subgrade for compliance with the design	chlorine solution and charged with water	 Any methods, street markings and signage necessary for warning motorists, warning 	WSE = WATER SURFACE ELEVATION
	assumptions made during preparation of the	approved by the City. The Contractor shall	pedestrians or diverting traffic during	WTR = WATER WWL = WASTEWATER LINE
TRENCH SAFETY NOTES:	Soils Report. Any adjustments that are required	supply a check or money order, payable to the	construction shall conform to the Texas Manual	WWMH = WASTEWATER MANHOLE
1 In accordance with the Laws of the State of	shall be made through revision of the	City of Round Rock, to cover the fee charged	of Uniform Traffic Control Devices for Streets	
Texas and the U. S. Occupational Safety and	construction plans.	for testing each water sample. City of Round Rock fee amounts may be obtained by calling	and Highways, latest edition.	
Health Administration regulations, all trenches	8. Where PI's are over 20, subgrades must be	the Development Services Office at (512)	2. All pavement markings, markers, paint, traffic	
over 5 feet in depth in either hard and compact	stabilized utilizing a method acceptable to the	218-7043.	buttons, traffic controls and signs shall be	
or soft and unstable soil shall be sloped, shored, sheeted, braced or otherwise	City Engineer. The Geotechnical Engineer shall		installed in accordance with the <u>Texas</u> Department of Transportation Standard	
supported. Furthermore, all trenches less than 5	recommend an appropriate subgrade	12. The Contractor, at his expense, shall perform	Specifications for Construction of Highways,	
feet in depth shall also be effectively protected	stabilization if sulfates are determined to be	quality testing for all wastewater pipe installed	Streets and Bridges and, the Texas Manual of	
when hazardous ground movement may be expected. Trench safety systems to be utilized	present.	and pressure pipe hydrostatic testing of all	Uniform Traffic Control Devices for Streets and Highways, latest editions.	
for this project will be provided by the		water lines constructed and shall provide all	rightayo, lacot cultorio.	

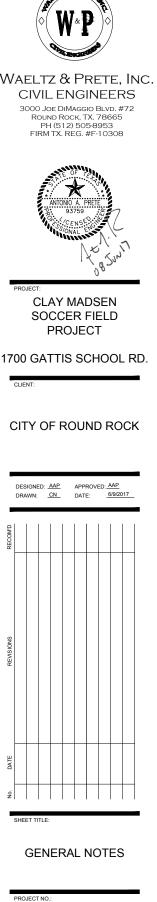
WATER AND WASTEWATER NOTES:

equipment (including pumps and gauges), EROSION AND SEDIMENTATION

City of Round Rock Standard

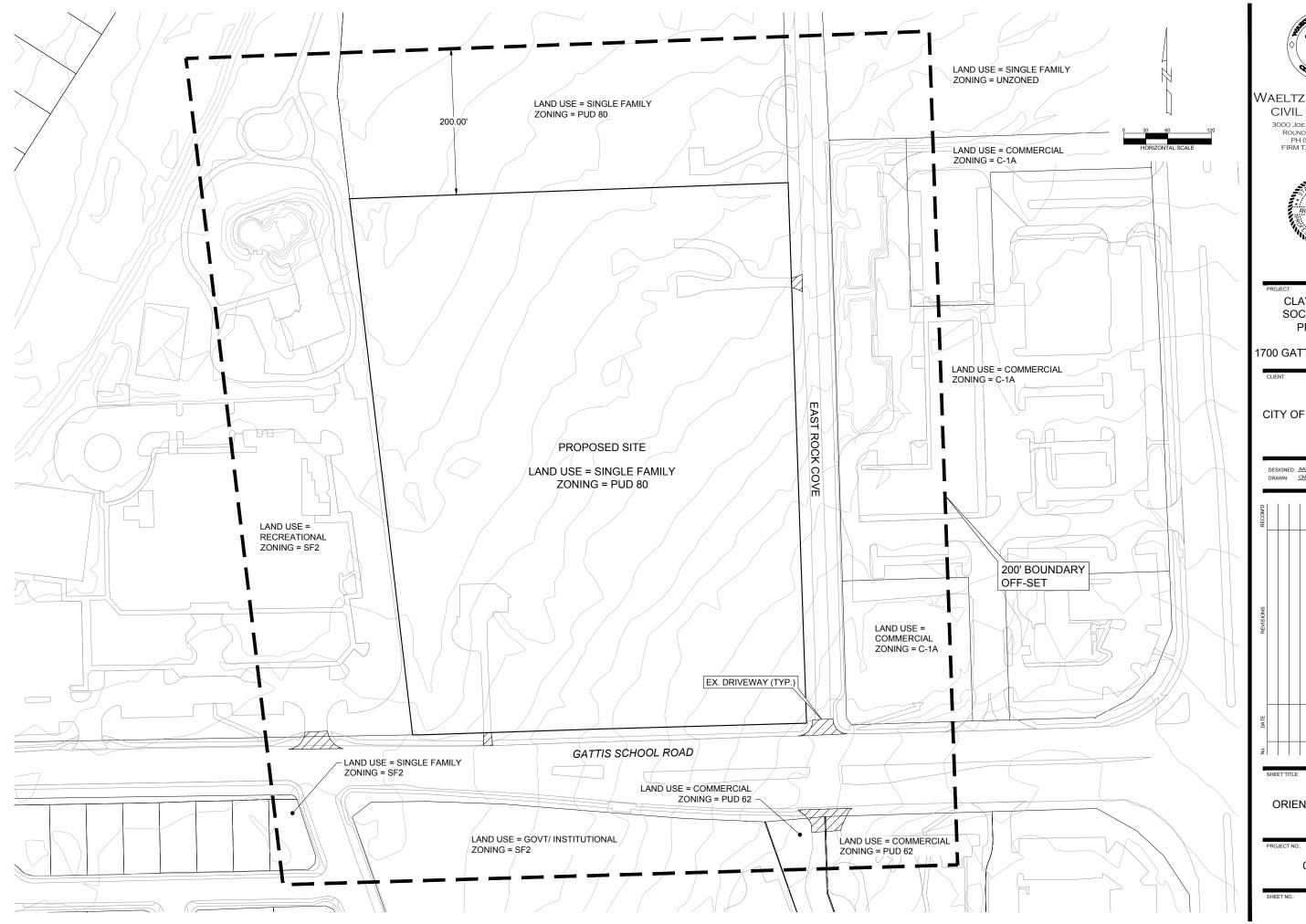
contractor

	Τ	REE LIS	ST
•	TREE NUMBER	SIZE (IN.)	TYPE
	30020	14	HACKBERRY
	30029	11	BOIS D'ARC
	30030	15,10	HACKBERRY
L	30032	10	HACKBERRY
L	30035	10	HACKBERRY
_	30036	9,9	HACKBERRY
F	30047	8,3 13	LIVE OAK PECAN
╞	30050	8	ASH
F	30052	12	BOXELDER
F	30057	8	SHINOAK
	30058	8	SHINOAK
	30059	10,9,8,7,4	SPANISH OAK
	30061	21	ASH
L	30063	20	ASH
L	30066	26	ASH
╞	30091	10,6	LIVE OAK
╞	30092	14	LIVE OAK
	30093 30098	14 24	LIVE OAK
╞	30098	24 14	LIVE OAK CHINESE TALLOW
F	30102	12,8	ASH
-	30130	12,0	CHINESE TALLOW
ŀ	30132	12	BUR OAK
	30135	14	LIVE OAK
	30137	8	SHUMARD
	30140	16,8,8	LIVE OAK
	30145	10	ASH
	30146	17	LIVE OAK
L	30149	11	PECAN
L	30151	10	SHINOAK
L	30152	14	SHUMARD
	30154	9	PINE
	30159	10	ASH
	30165	26	ASH
-	30167	13	ASH
-	30168	29 27	ASH
ŀ	30170	10	PECAN
F	30172	11,8	PECAN
F	30173	11	PECAN
F	30174	10	PECAN
	30175	28	ASH
	30176	28	COTTONWOOD
Ĺ	30177	21	ASH
	30178	11	MULBERRY
	30179	21	ASH
F	30180	26,20	ASH
	30181	17	COTTONWOOD
	30183	16	CHINESE TALLOW
╞	30184	12	CHINESE TALLOW
	30185 30187	14 11,10	HACKBERRY
-	30187	12	CEDAR ELM
-	30188	12	HACKBERRY
-	30190	14	AMERICAN ELM
-	30191	9	CHINESE TALLOW
ŀ	30192	12	CHINESE TALLOW
ŀ	30193	10	HACKBERRY
F	30194	9	HACKBERRY
ľ	30195	9,9	HACKBERRY
ľ	30198	18	AMERICAN ELM
ľ	30199	13	AMERICAN ELM
	30202	19	PECAN
Ĺ	30224	11	HACKBERRY
	30230	12	HACKBERRY
	30231	14	HACKBERRY
H	220098	8	PECAN



C-2

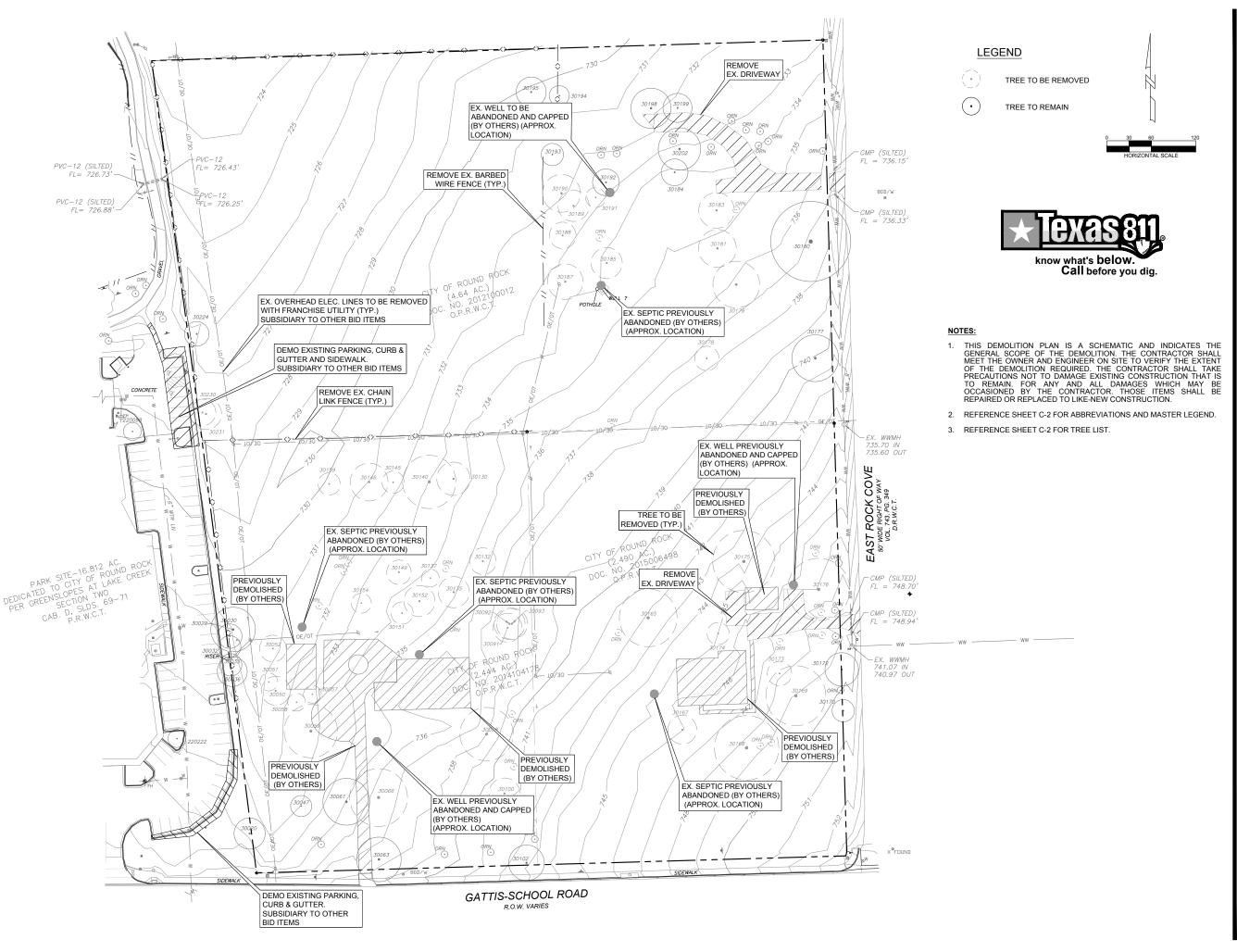
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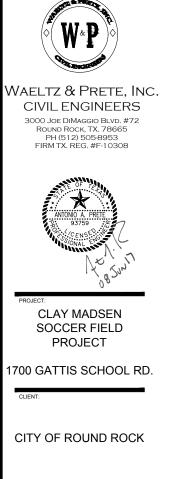


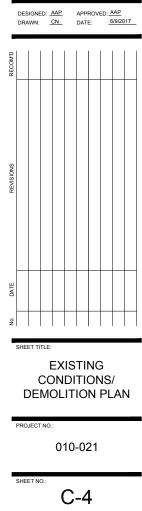
WAELTZ & PRETE, INC. CIVIL ENGINEERS 3000 Joe DiMaggio Blvd. #72 Round Rock, TX. 78665 PH (512) 505-8953 FIRM TX. REG. #F-10308 CLAY MADSEN SOCCER FIELD PROJECT 1700 GATTIS SCHOOL RD. CITY OF ROUND ROCK DESIGNED: <u>AAP</u> APPROVED: <u>AAP</u> DRAWN: <u>CN</u> DATE: <u>6/9/2017</u> **ORIENTATION MAP**

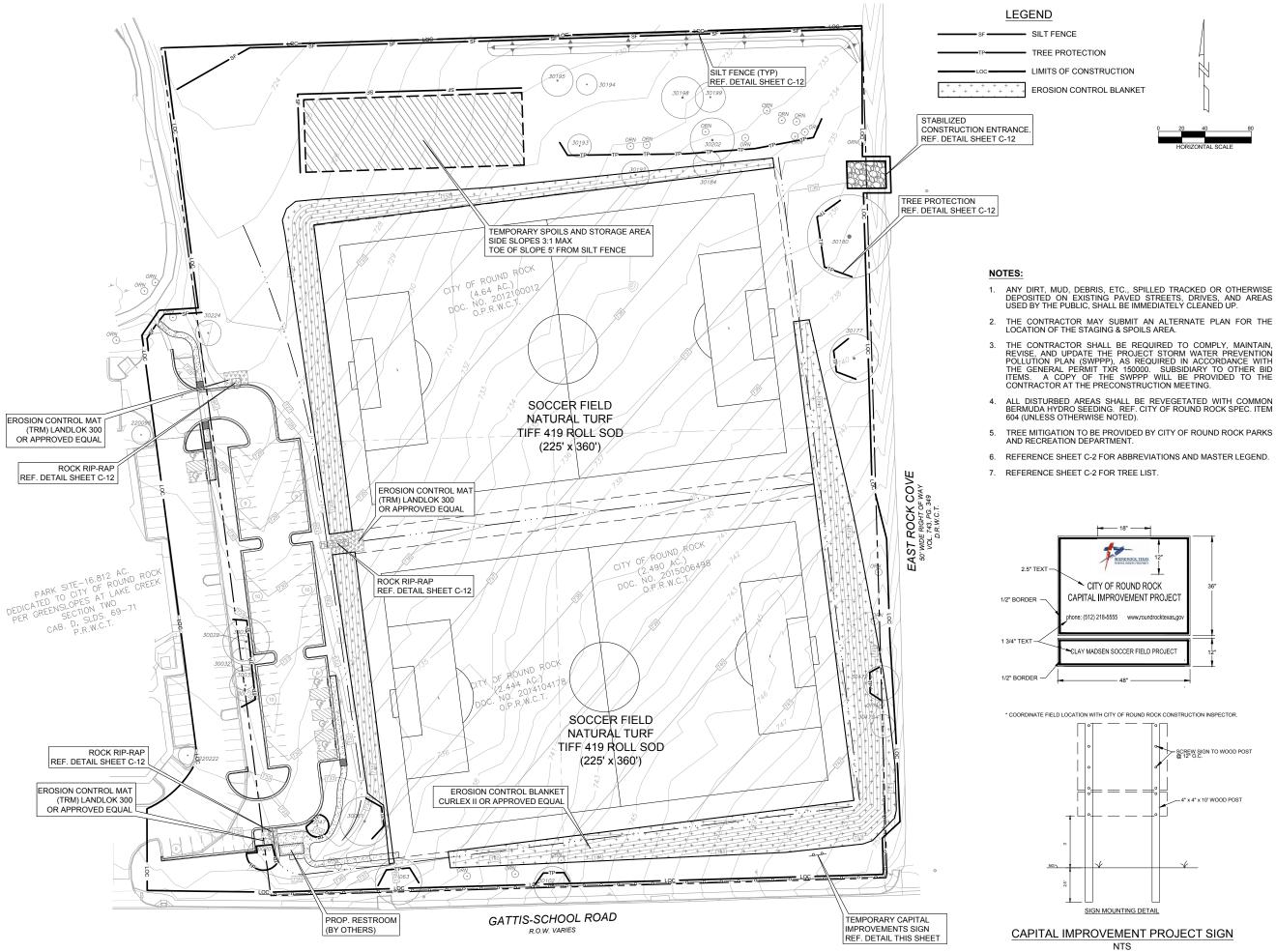
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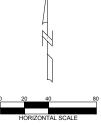
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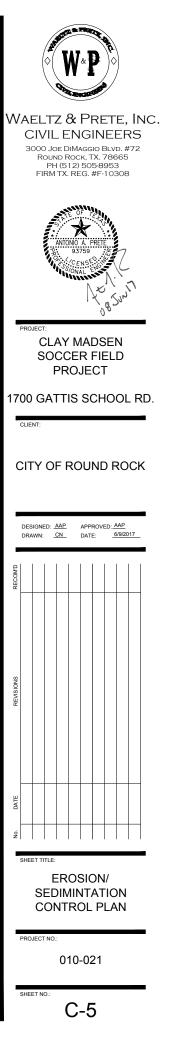


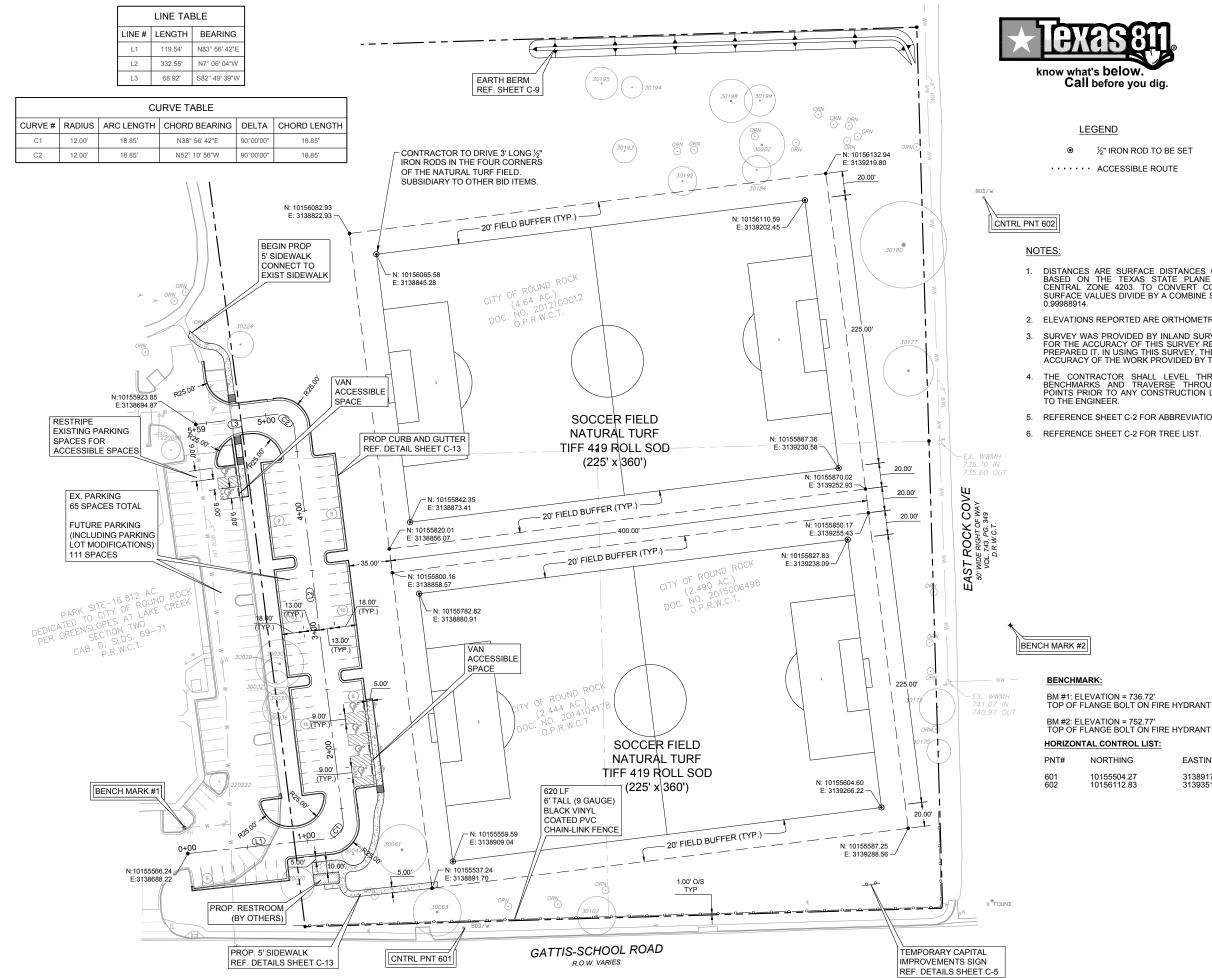












½" IRON ROD TO BE SET

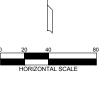
DISTANCES ARE SURFACE DISTANCES COORDINATES ARE GRID VALUES BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83, CENTRAL ZONE 4203. TO CONVERT COORDINATES AND DISTANCES TO SURFACE VALUES DIVIDE BY A COMBINE SURFACE ADJUSTMENT FACTOR OF

2. ELEVATIONS REPORTED ARE ORTHOMETRIC HEIGHTS BASED ON GEOID 09.

SURVEY WAS PROVIDED BY INLAND SURVEYING, LLC. ALL RESPONSIBILITY FOR THE ACCURACY OF THIS SURVEY REMAINS WITH THE SURVEYOR WHO PREPARED IT. IN USING THIS SURVEY, THE ENGINEER MUST RELY UPON THE ACCURACY OF THE WORK PROVIDED BY THE SURVEYOR.

THE CONTRACTOR SHALL LEVEL THROUGH THE VERTICAL CONTROL BENCHMARKS AND TRAVERSE THROUGH THE HORIZONTAL CONTROL POINTS PRIOR TO ANY CONSTRUCTION LAYOUT. REPORT DISCREPANCIES

5. REFERENCE SHEET C-2 FOR ABBREVIATIONS AND MASTER LEGEND.





WAELTZ & PRETE, INC. **CIVIL ENGINEERS** 3000 JOE DIMAGGIO BLVD. #72 ROUND ROCK, TX, 78665

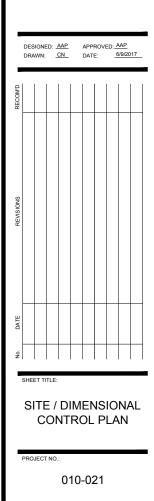
PH (512) 505-8953 FIRM TX. REG. #F-10308



CLAY MADSEN SOCCER FIELD PROJECT

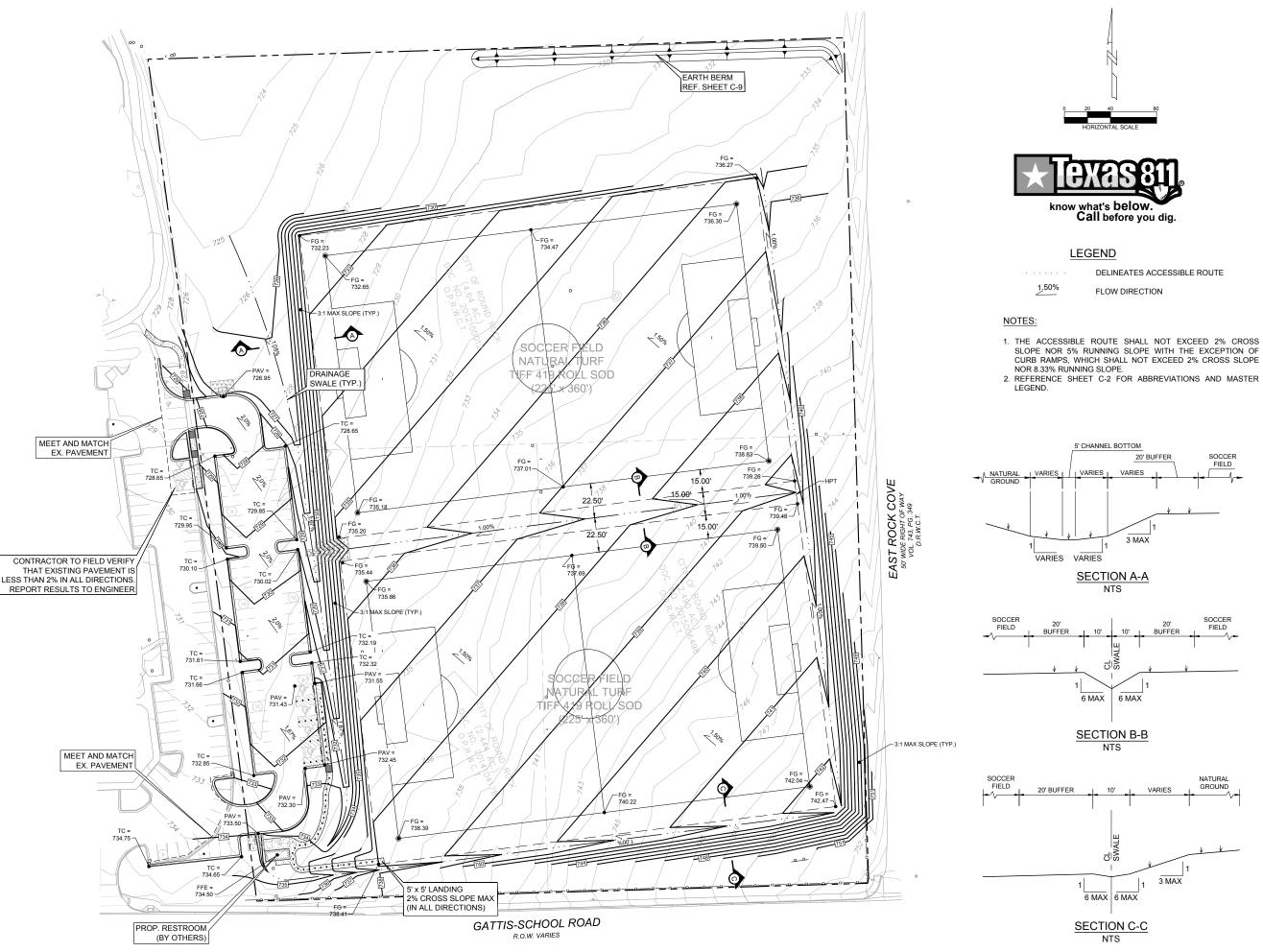
1700 GATTIS SCHOOL RD.

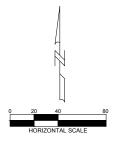
CITY OF ROUND ROCK

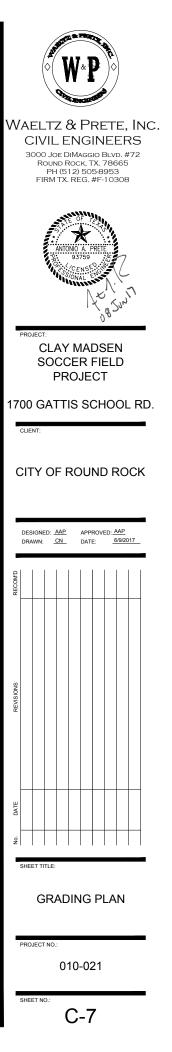


ORTHING	EASTING	DESC.
)155504.27	3138917.91	TPT-80D/W
)156112.83	3139351.54	TPT-80D/W

C-6







PAVEMENT SECTION RECCOMMENDATIONS

FLEXIBLE PAVEMENT SECTION	PARKING LOT
HOT MIX ASPHALTIC CONCRETE FLEX BASE MATERIAL	2" 10"

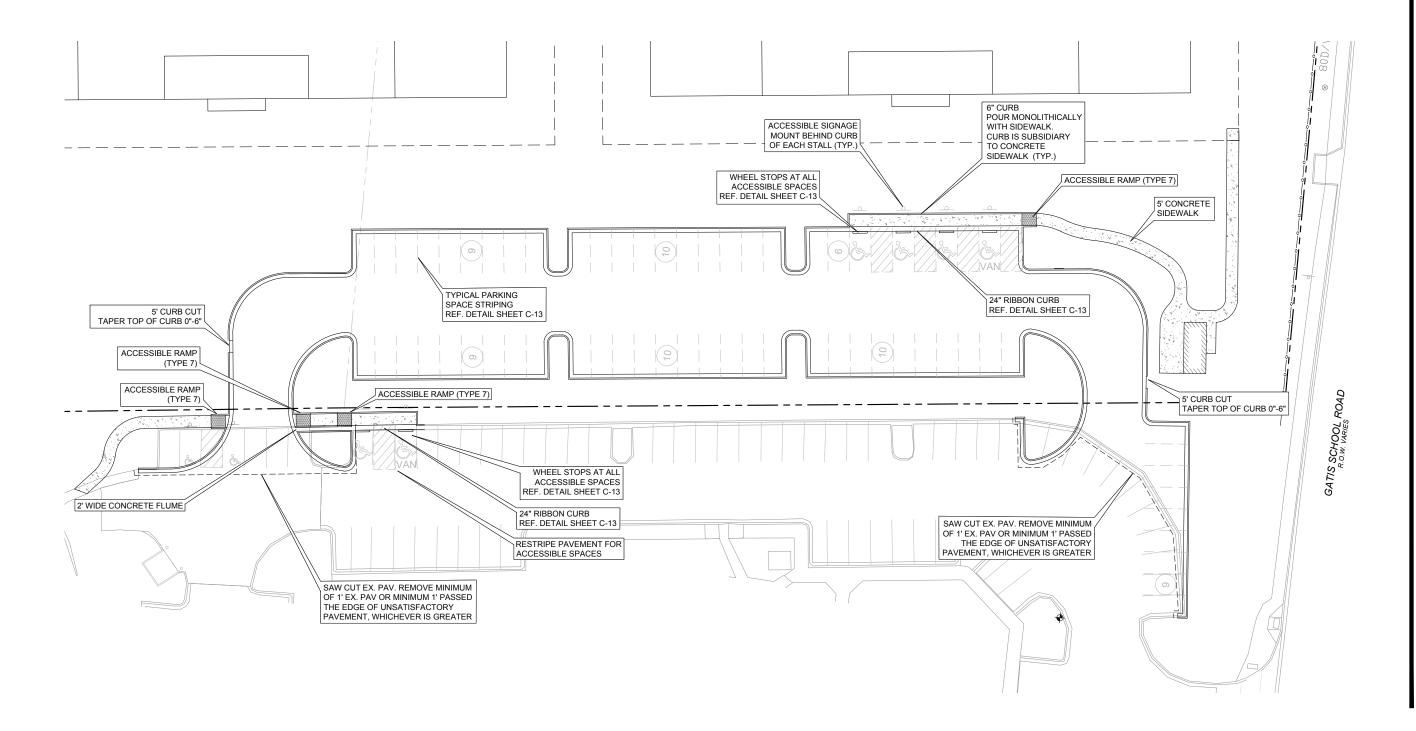
** NO NEW GEOTECHNICAL INVESTIGATION WAS PREPARED FOR THIS PROJECT. PAVEMENT SECTION IS BASED ON THE ORIGINAL DESIGN PLANS FOR THE CLAY MADSEN RECREATION CENTER.

- LIGHT DUTY PAVEMENT AREAS ARE DEFINED AS PARKING STALLS & MEDIUM DUTY PAVEMENT 1. AREAS ARE DEFINED AS DRIVE AISLES AND FIRE LANES.
- CONCRETE PAVING SHALL HAVE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS AT 2. INTERVALS NOT EXCEEDING 12.5 FEET. DEPTH OF JOINTS SHALL BE AT LEAST 1/4 OF THE SLAB THICKNESS. THE JOINTS MUST BE SAW CUT AS SOON AS THE CONCRETE HAS HARDENED AND WILL NOT REAR OR RAVEL WHEN CUT, WITHIN 6-12 HOURS OF PLACEMENT.
- SUPPORT REINFORCEMENT STEEL WITH CHAIRS OF PRECAST CONCRETE BLOCKS ABOUT 1 INCH BELOW THE BOTTOM OF THE PLANNED CONTRACTION JOINTS. 3.
- PROVIDE LOAD TRANSFER AT THE INTERFACE BETWEEN AREAS OF CONCRETE PLACED AT 4. DIFFERENT TIMES USING TIED AND KEYED CONSTRUCTION JOINTS. PLACE CONSTRUCTION JOINT AT PLANNED CONTRACTION JOINT LOCATIONS.
- ALL JOINTS SHALL BE SEALED IN ACCORDANCE WITH CORR SPECIFICATION ITEM 360. 5.
- STAGE PAVEMENT CONSTRUCTION SUCH THAT CONSTRUCTION TRAFFIC, INCLUDING CONCRETE 6. TRUCKS, DO NOT TRAVEL ON NEWLY PLACED CONCRETE PAVEMENT UNTIL THE CONCRETE ACHIEVES AT LEAST 75% OF THE DESIGN STRENGTH, USUALLY 7 DAYS.
- CONCRETE JOINTING FOR SIDEWALKS SHALL MATCH THE ADJACENT CURB OR PAVEMENT 7 JOINTING.

- 8. MOVEMENT.
- 9. PREVENT DIFFERENTIAL MOVEMENT.
- PAVEMENT.



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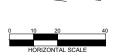
SIDEWALKS ADJACENT TO CURB AND GUTTERS SHALL BE DOWELED TO PREVENT DIFFERENTIAL

SIDEWALKS AT DOORWAY LOCATIONS SHALL BE DOWELED TO THE BUILDING FOUNDATION TO

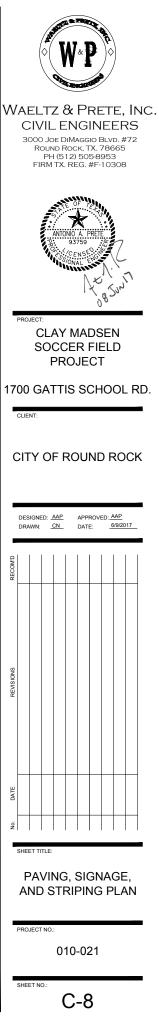
10. CONTRACTOR MAY SUBMIT AN ALTERNATE JOINTING PLAN FOR CONSIDERATION.

11. CURBS WITHIN THE LIMITS OF CONCRETE PAVEMENT SHALL BE MONOLITHICALLY POURED WITH



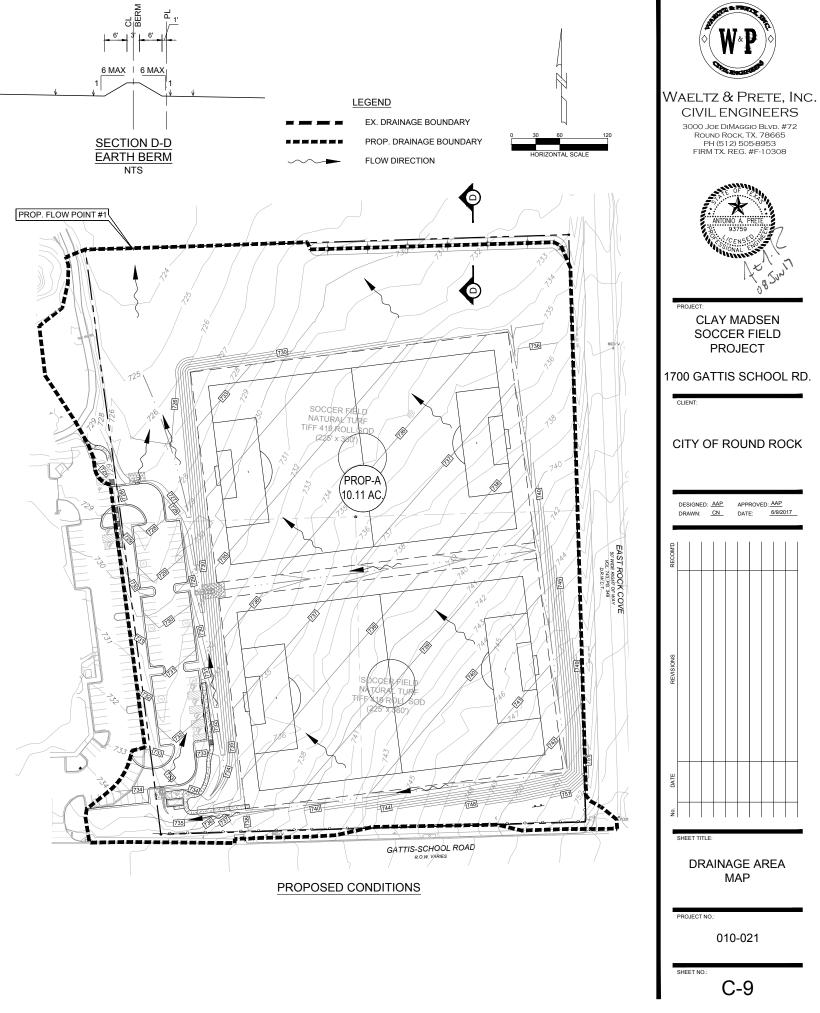


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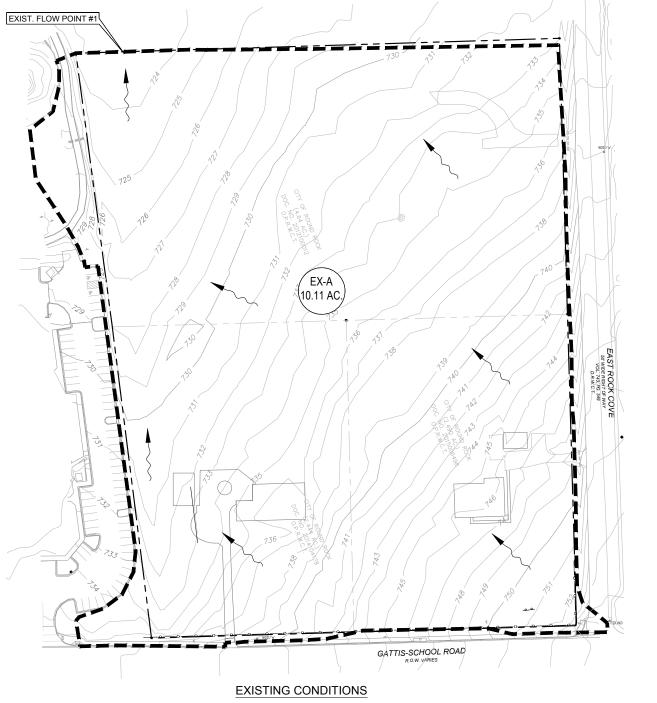


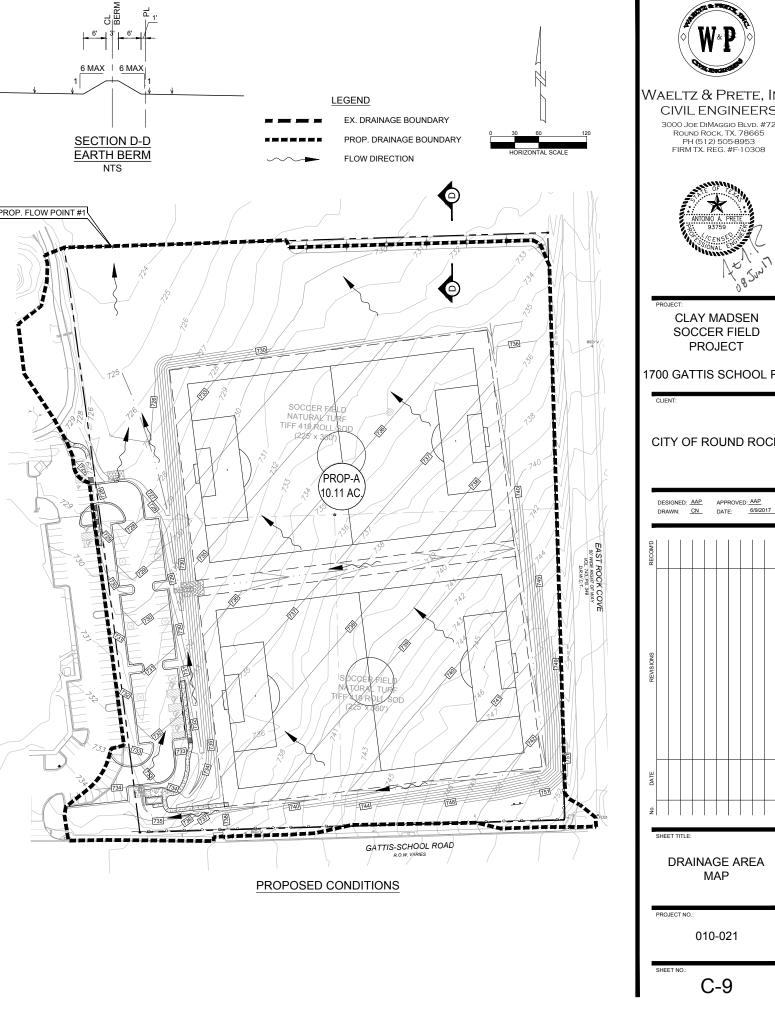
EXISTING vs. PROPOSED CONDITIONS DRAINAGE TABLE (RATIONAL METHOD):

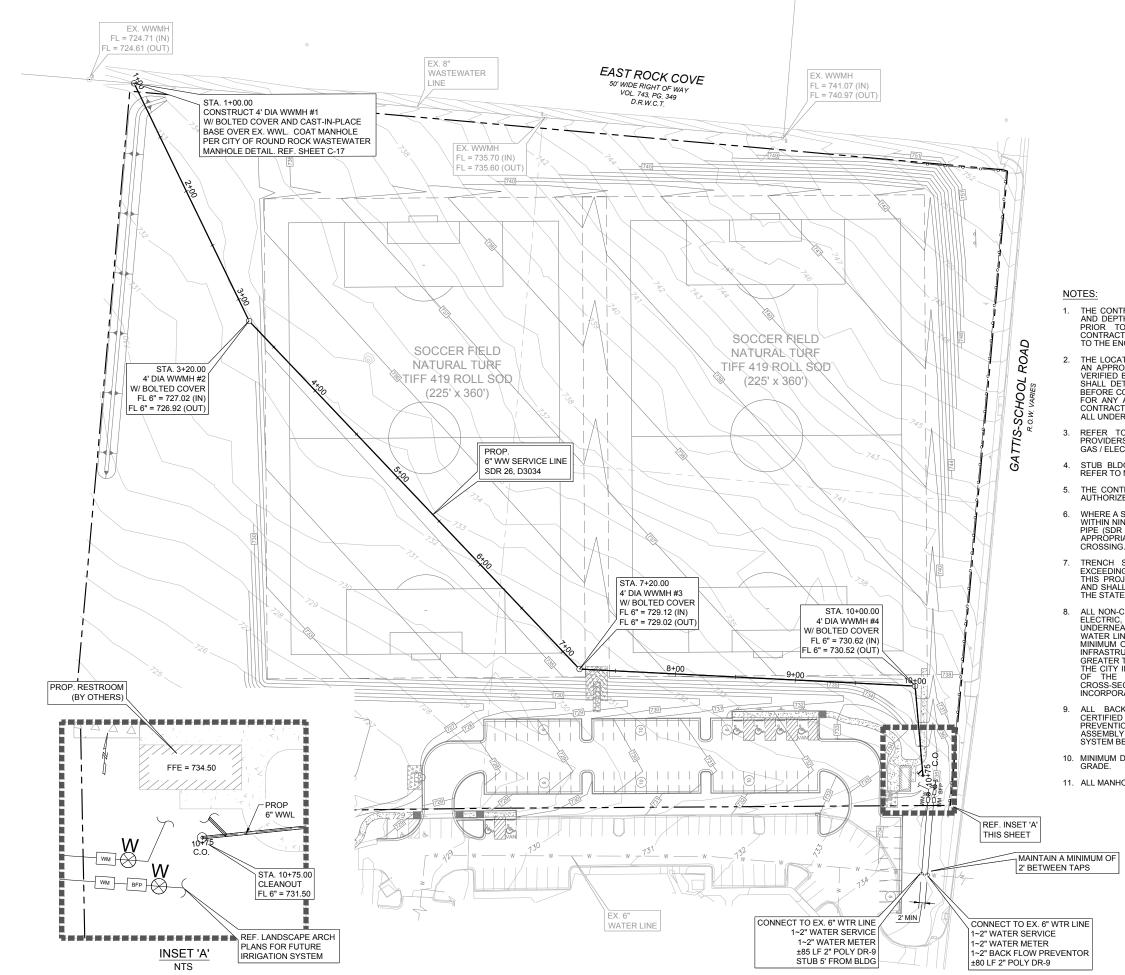
SUB-BASIN DESIGNATION	AREA [acres]	T _c [min.]	estimated Imperv. +/- [%]	C ₂	C ₁₀	C ₂₅	C ₁₀₀	l ₂ [in/hr]	l ₁₀ [in/hr]	l ₂₅ [in/hr]	I ₁₀₀ [in/hr]	Q ₂ [cfs]	Q ₁₀ [cfs]	Q ₂₅ [cfs]	Q ₁₀₀ [cfs]
EX-A PROP-A	10.11 10.11	5.0 7.5	5 10	0.31 0.34	0.37 0.40	0.41 0.44	0.49 0.51	6.48 5.87	8.64 7.90	9.84 9.05	11.88 10.98	20.31 20.18	32.33 31.94	40.78 40.27	58.85 56.59
NETA												-0.12	-0.38	-0.51	-2.26

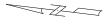


*THIS SITE PROPOSES TO PARTICIPATE IN THE CITY OF ROUND ROCK REGIONAL DETENTION PROGRAM. THE PROPOSED IMPROVEMENTS FOR THIS PROJECT HAVE NO IDENTIFIABLE ADVERSE IMPACT DOWN STREAM.













1. THE CONTRACTOR SHALL POT HOLE AND FIELD VERIFY THE LOCATION AND DEPTHS OF ALL PROPOSED UTILITY CROSSINGS & CONNECTIONS PRIOR TO ANY CONSTRUCTION OR ORDERING OF MATERIALS. CONTRACTOR SHALL REPORT DISCREPANCIES OF EXISTING UTILITIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

REFER TO MEP PLAN FOR SERVICE CONNECTIONS TO UTILITY PROVIDERS: GAS / ELECTRIC / TELEPHONE / ETC.

4. STUB BLDG. WATER & WASTEWATER SERVICE LINES 5' FROM BLDG. REFER TO MEP PLAN FOR CONTINUATION.

THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.

 WHERE A SEWER CROSSES A WATERLINE, ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF PVC PIPE (SDR 26) WITH A PRESSURE RATING OF AT LEAST 160 PSI USING APPROPRIATE ADAPTERS. CENTER 1 JOINT OF WASTEWATER LINE ON CONSENSE.

 TRENCH SAFETY SYSTEMS SHALL BE REQUIRED FOR TRENCHES EXCEEDING 5' DEPTH. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF TEXAS.

ALL NON-CITY INFRASTRUCTURE (INCLUDING BUT NOT LIMITED TO GAS, ELECTRIC, CABLE, AND TELECOMMUNICATIONS)SHALL TRAVERSE UNDERNEATH CITY INFRASTRUCTURE (INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER LINES, AND STORM SEWER LINES) WITH A MINIMUM OUTSIDE-TO-OUTSIDE CLEARANCE OF 18". WHERE NON-CITY INFRASTRUCTURE WOULD HAVE TO BE PLACED AT A DEPTH OF 8' OR GREATER TO MEET THE PRECEDING REQUIREMENT, TRAVERSING ABOVE THE CITY INFRASTRUCTURE MAY BE ALLOWED, SUBJECT TO APPROVAL OF THE CITY ENGINEER, BUT ONLY IN CONFORMANCE WITH CROSS-SECTIONS, PROFILES, AND/ OR OTHER DETAILED INFORMATION INCORPORATED IN THESE PLANS.

ALL BACKFLOW PREVENTION ASSEMBLIES INSTALLED MUST BE CERTIFIED FOR OPERATION BY A TCEQ ACCREDITED BACKFLOW PREVENTION TESTER AND A TEST REPORT SUBMITTED FOR EACH ASSEMBLY TO THE BUILDING INSPECTIONS DEPARTMENT PRIOR TO THE SYSTEM BEING OPERATIONAL.

10. MINIMUM DEPTH FOR WATER LINE SERVICE SHALL BE 24" FROM FINISH GRADE.

11. ALL MANHOLES TO BE COATED AND VACUUM TESTED.



WAELTZ & PRETE, INC. CIVIL ENGINEERS 3000 Joe DIMAGGIO BLVD. #72 ROUND ROCK, TX. 78665 PH (512) 5058953 FIRM TX. REG. #F-10308

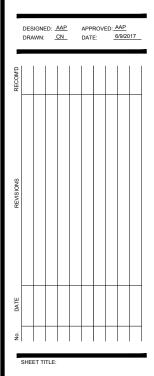


CLAY MADSEN SOCCER FIELD PROJECT

1700 GATTIS SCHOOL RD.

CLIENT:

CITY OF ROUND ROCK



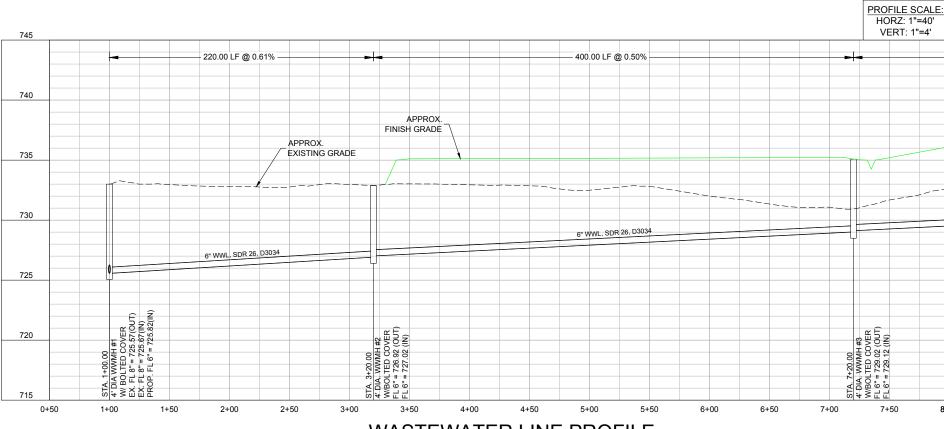
UTILITY PLAN

PROJECT NO

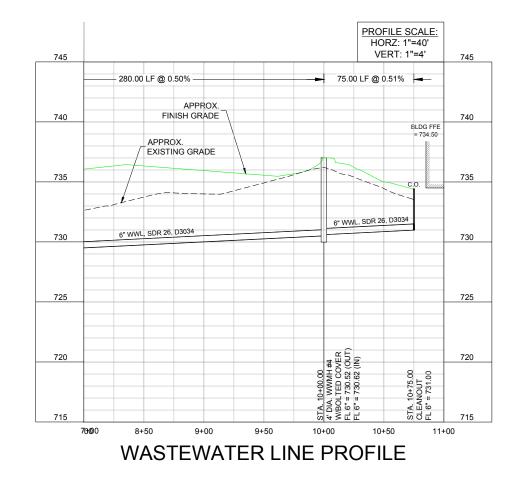
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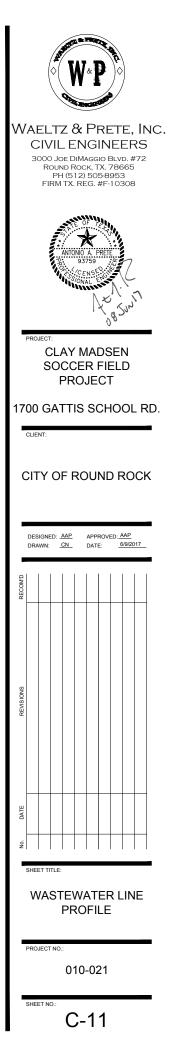
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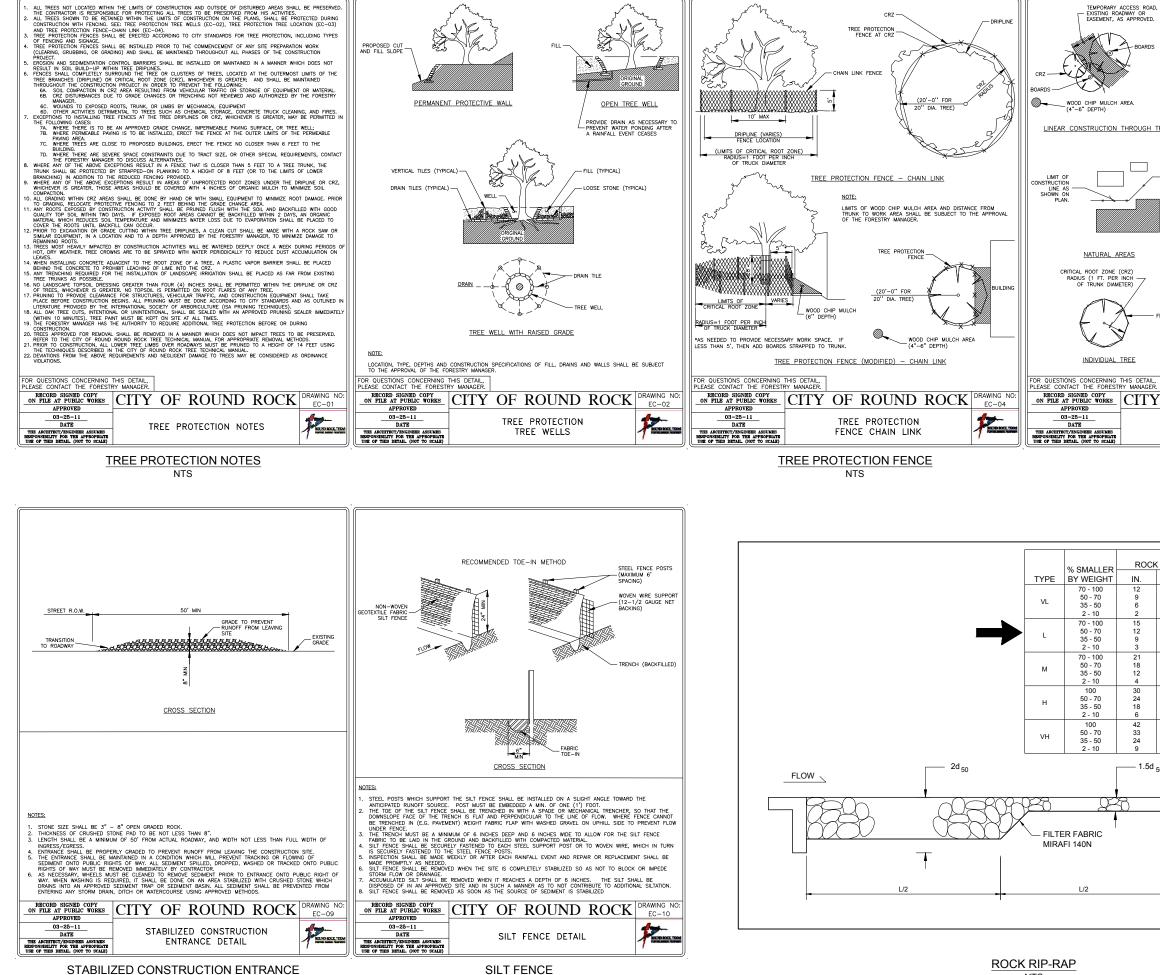


WASTEWATER LINE PROFILE



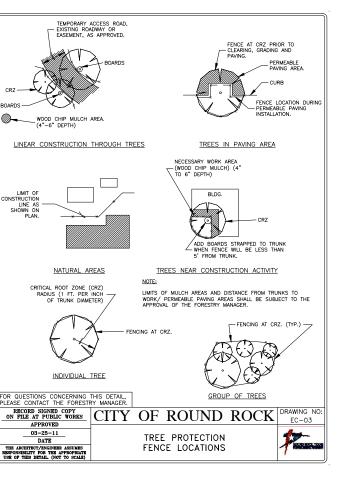




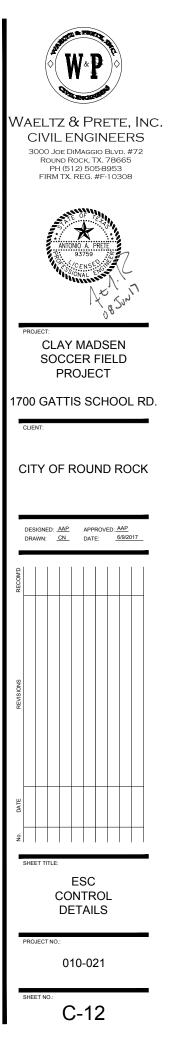


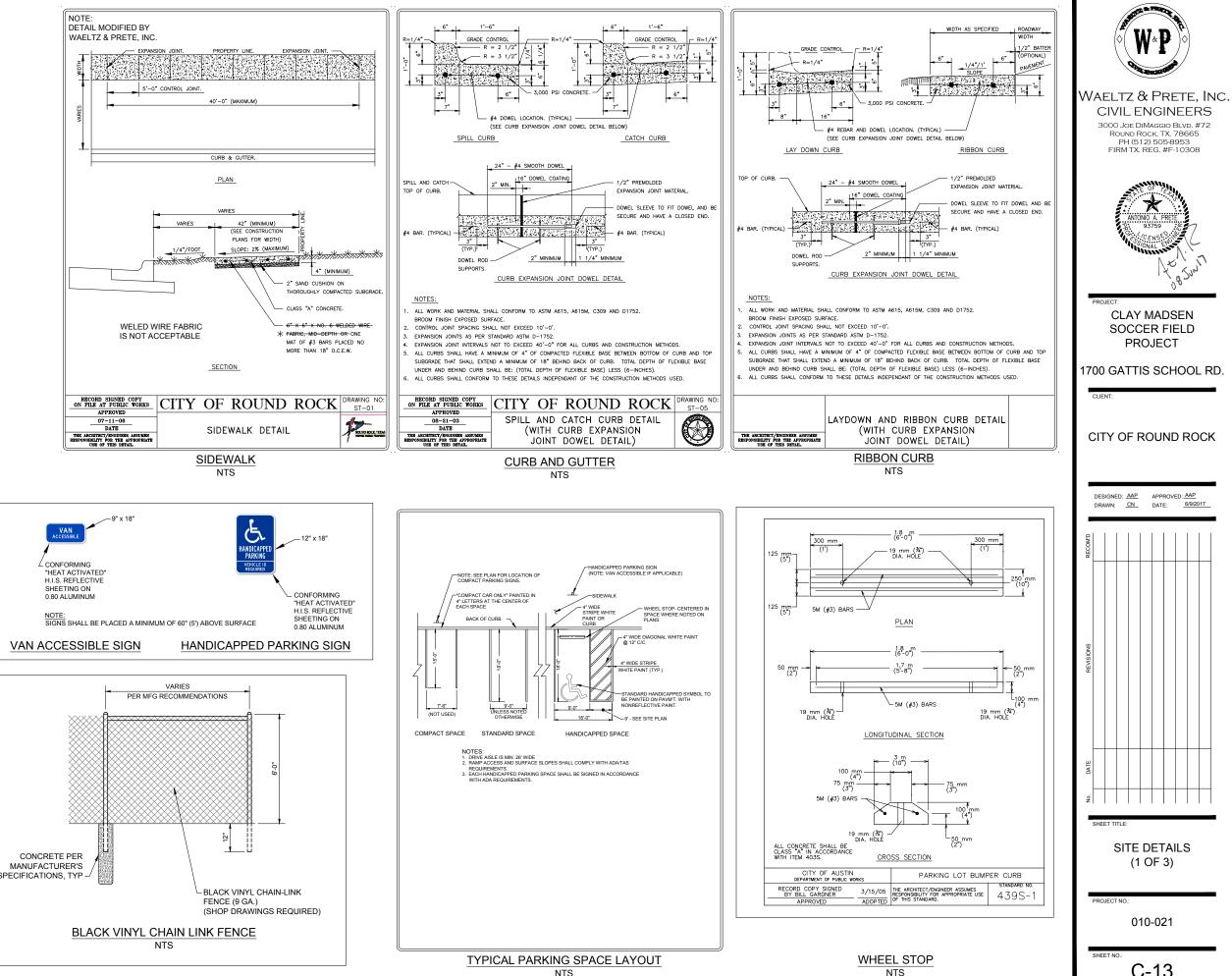
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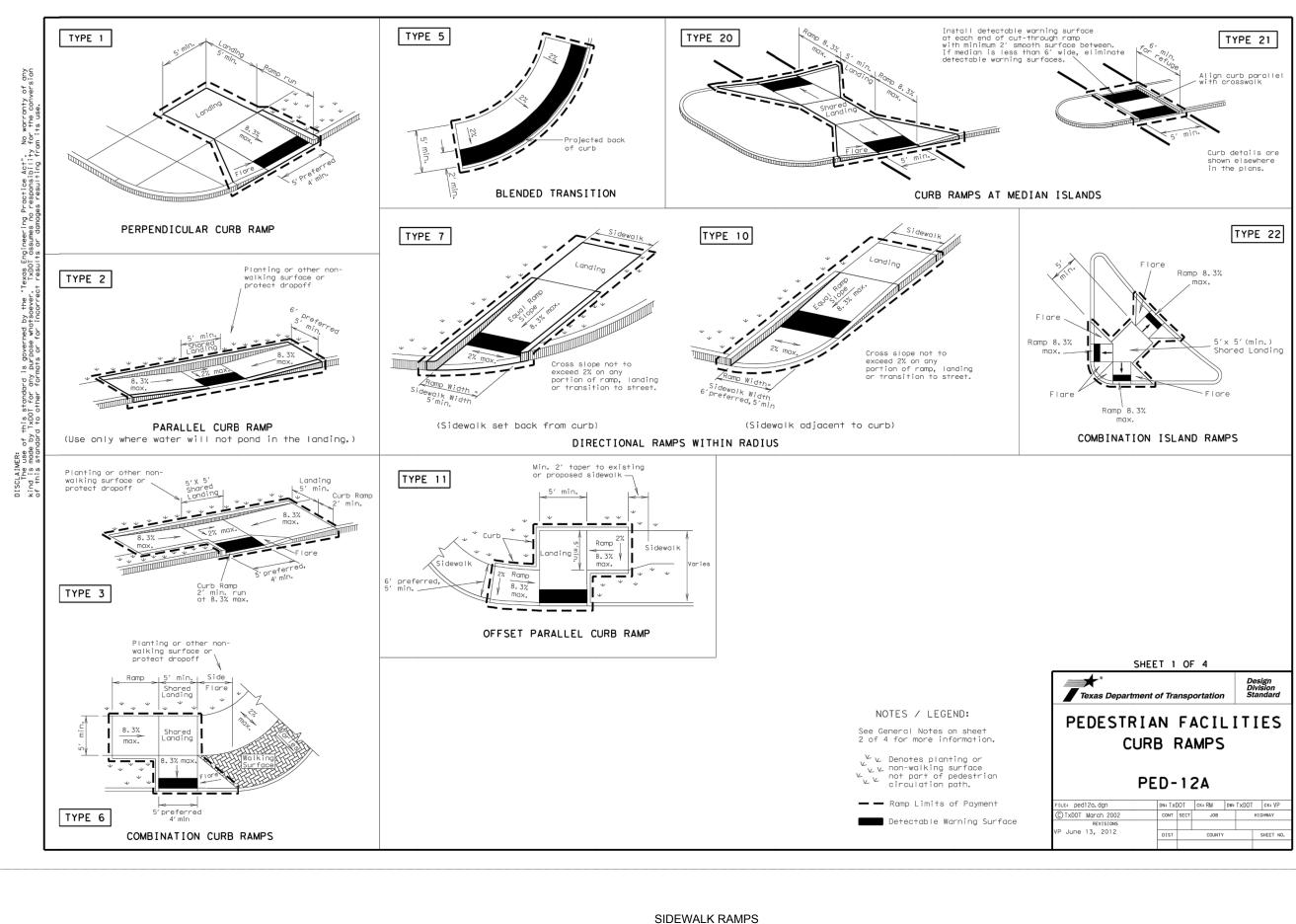
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	ROCK	SIZE	MEDIAN	SIZE, d₅₀
R T	IN.	MM	IN.	ММ
	12	300		
	9 6	230 150	6	150
	2	50		
	15	380		
	12 9	300 230	9	230
	3	80		
	21	530		
	18 12	460 300	12	300
	4	100		
	30 24	760 610	18	
	18	460		460
	6	150		
	42 33	1070 840		
	24	610	24	610
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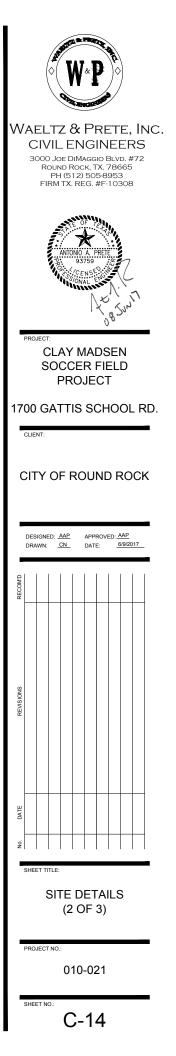


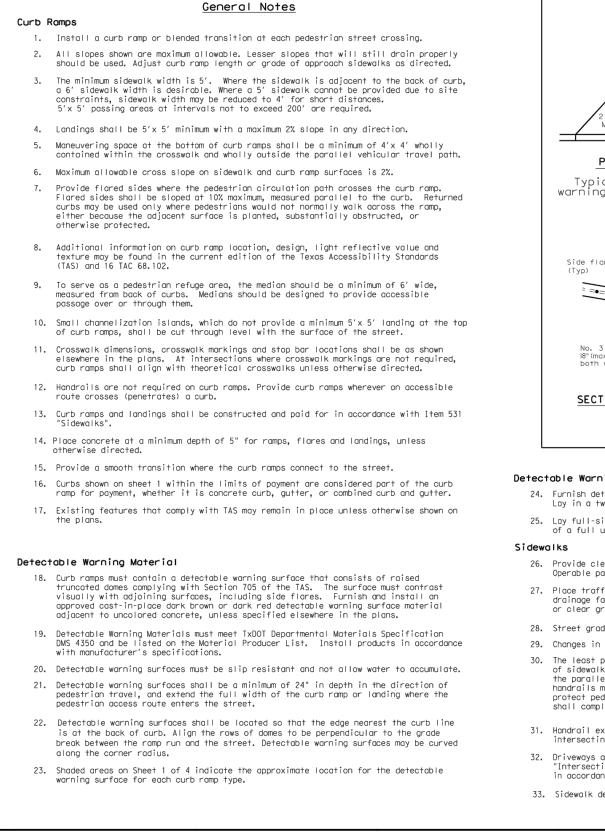


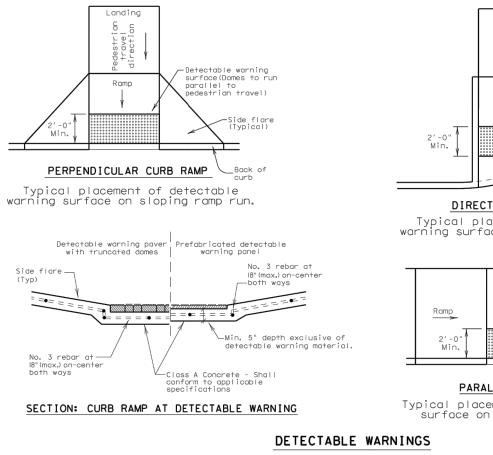
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C-13









Detectable Warning Pavers

- 24. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
- 25. Lay full-size units first followed by closure units consisting of at least 25 percent of a full unit. Cut detectable warning paver units using a power saw.
- 26. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within one or more reach ranges specified in TAS 308.
- 27. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear around space.
- 28. Street grades and cross slopes shall be as shown elsewhere in the plans.
- 29. Changes in level greater than 1/4 inch are not permitted.
- 30. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to the the term of the parallel continuous in the provided of the parallel content of the parallel c protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.
- 31. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
- 32. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
- 33. Sidewalk details are shown elsewhere in the plans.

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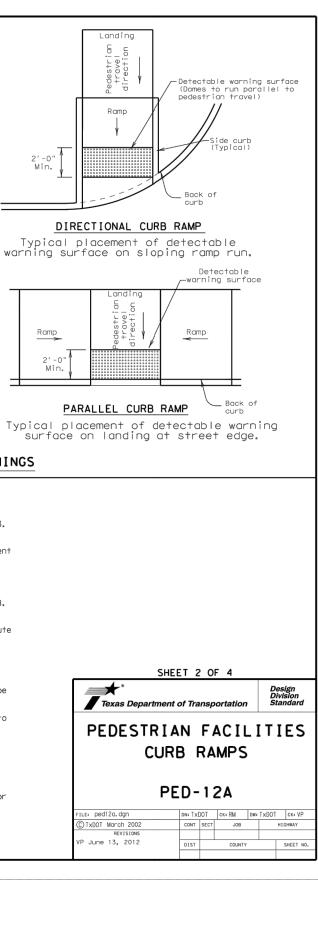
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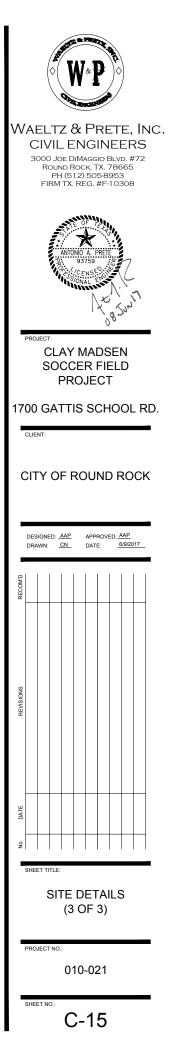
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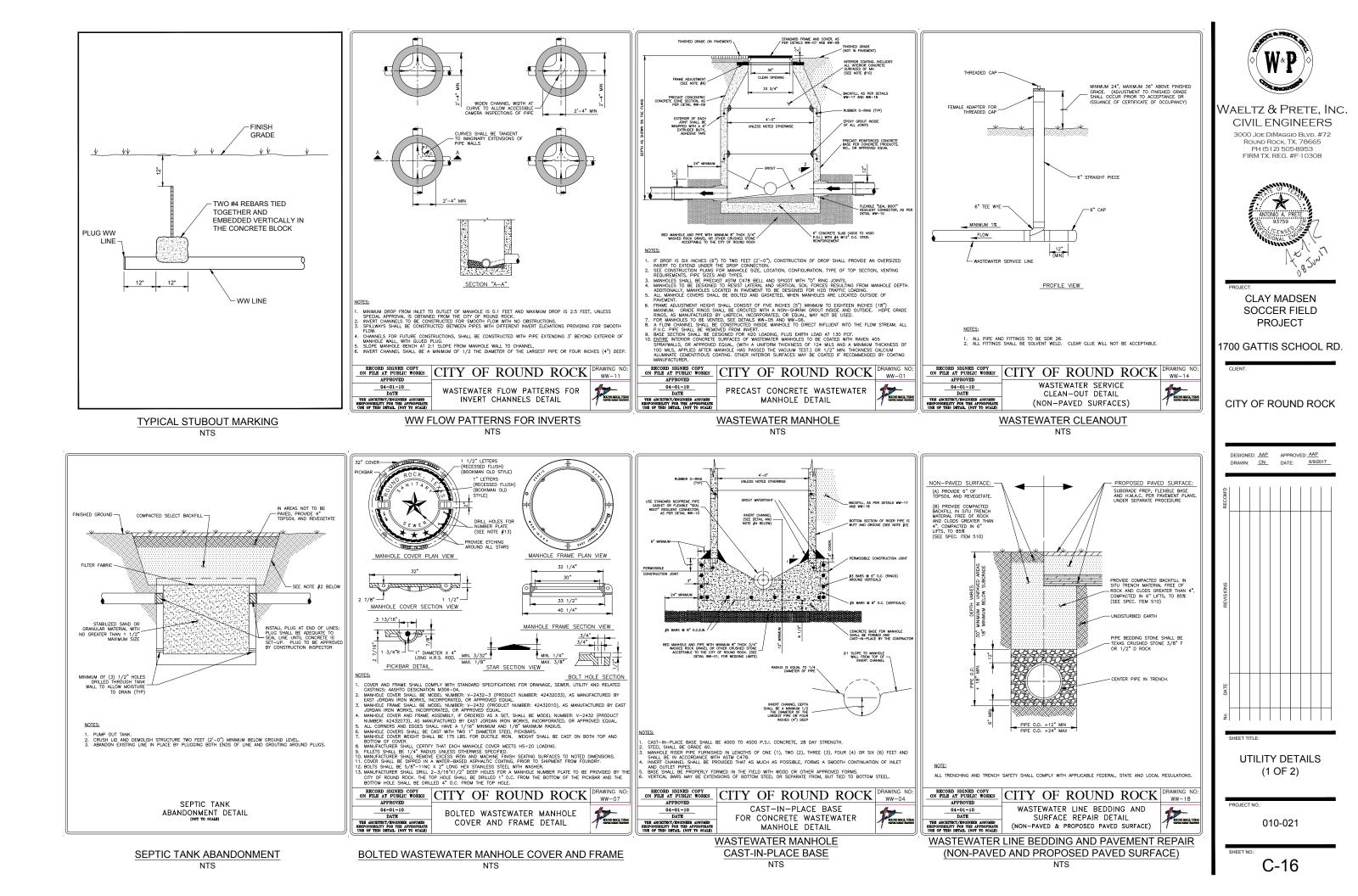
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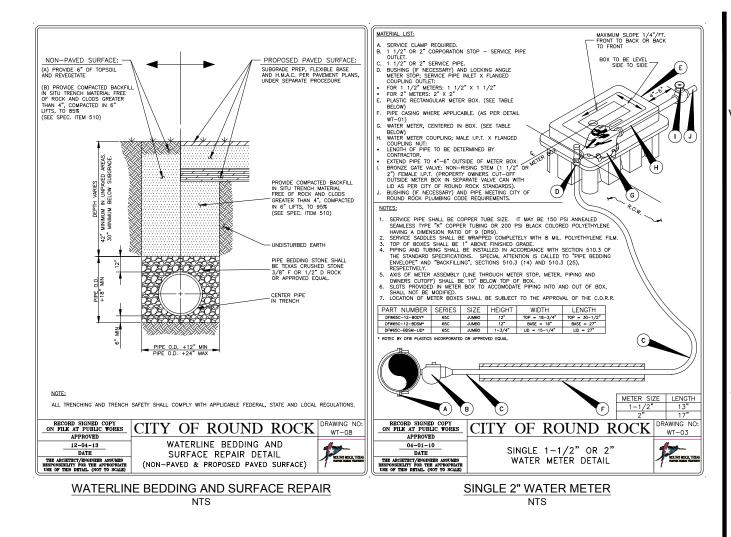
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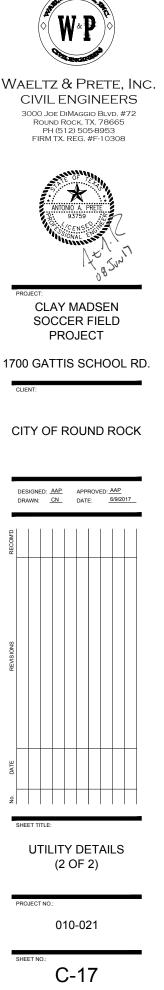
SIDEWALK RAMP NOTES NTS











CONSTRUCTION NOTES:

- 1. THE IRRIGATION PLAN IS A SCHEMATIC DESIGN. FIELD ADJUSTMENTS TO EQUIPMENT MAY BE NECESSARY. CONTRACTOR TO VERIFY PIPE SIZES TO ENSURE PROPER PRESSURE.
- 2. TO MAINTAIN OPTIMUM PRESSURE AVOID "L" AND "T" CONNECTIONS WHEN EVER POSSIBLE.
- 3. ALL INSTALLED EQUIPMENT IS TO BE INSPECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO BACKFILLING OR ENCLOSURE.
- 4. AFTER BACKFILLING TRENCHES, CONTRACTOR SHALL SMOOTH AND RAKE SOIL TO SURROUNDING SOIL ELEVATION. REMOVE ALL ROCKS, ROOTS OR DEBRIS FROM SITE.
- 5. UPON COMPLETION OF WORK, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM TO OWNER.

RAIN BIRD FALCON 6504 SERIES #10 NOZZLE ROTOR - MODEL # F4-FC-NP

RAIN BIRD PEB SERIES 2" PLASTIC VALVE - MODEL # 200-PEB

2" FEBCO 850 SERIES DOUBLE CHECK VALVE ASSEMBLY

1. VERIFY EXISTING PRESSURE OF 65 PSI BEFORE BEGINNING WORK

LEGEND

2 1/2" ISOLATION VALVE

PVC MAIN LINE - CLASS 200

2" WATER METER

VALVE GUIDE

VALVE SIZE PRECIPITATION RATE

DESIGN NOTES:

CONTROLLER STATION NUMBER GALLONS PER MINUTE PER VALVE

2. MAXIMUM CIRCUIT GALLONAGE - 55 GPM

3. MINUMUM PRESSURE AT HEAD SHALL BE 40 PSI

QUICK COUPLING VALVE WITH KEYS PVC LATERAL - CLASS 200

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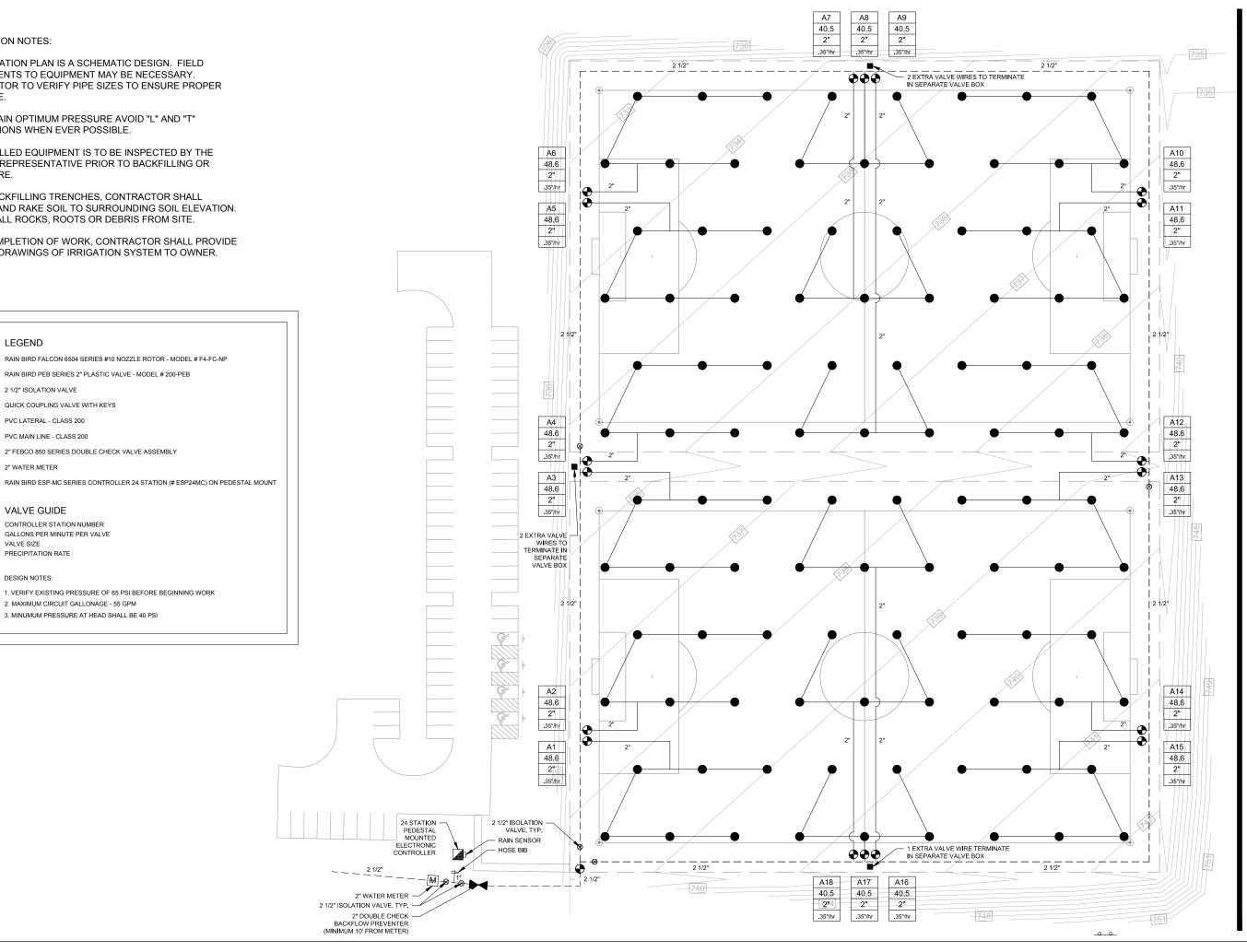
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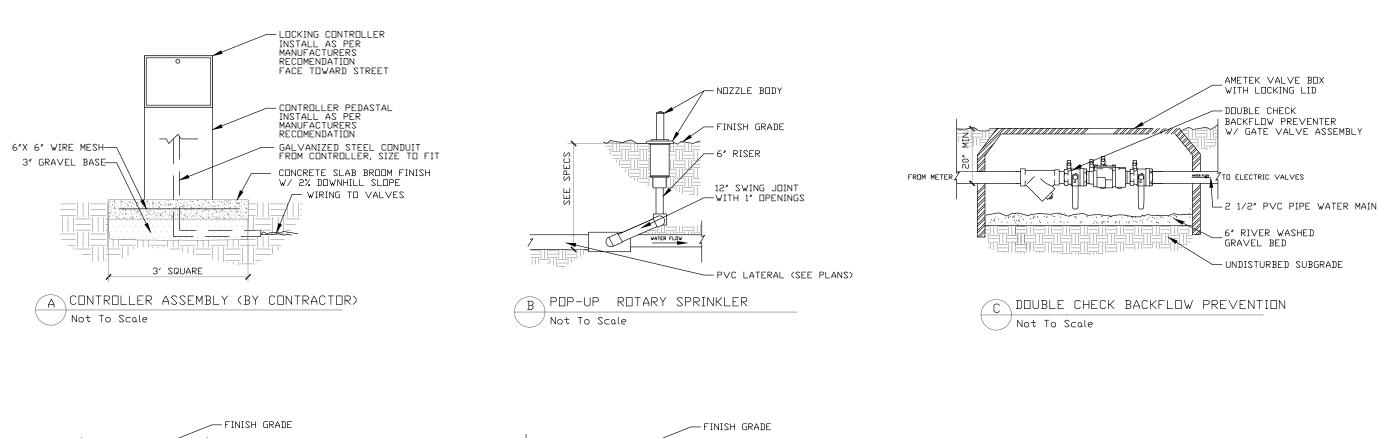
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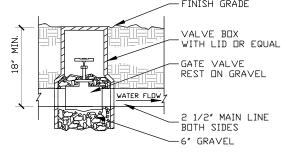
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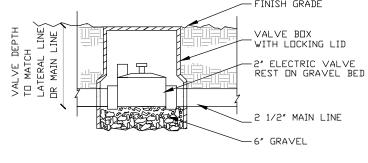
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CLAY MADSEN SOCCER FIELD PROJECT						
1600 Gattis School Rd, Round Rock, TX 78664						
ISSUED DATE:						
JUNE 2017						
SHEET TITLE: IRRIGATION PLAN						
Sheet #:						











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CLAY MADSEN SOCCER FIELD PROJECT 1600 Gattis School Rd, Round Rock, TX 78664
ISSUED DATE: JUNE 2017 SHEET TITLE: IRRIGATION DETAILS
sheet #: 2

LANDSCAPE IRRIGATION NOTES

PART 1 - GENERAL

- 1.1 RECORD DRAWINGS
 - A. CONTRACTOR SHALL SUPPLY THE OWNER WITH "AS-BUILT" DRAWINGS OF THE IRRIGATION SYSTEM.
 - B. RECORD DIMENSIONED LOCATIONS AND DEPTHS FOR EACH OF THE FOLLOWING:
 - 1. POINT OF CONNECTION
 - 2. MAIN AND LATERAL LINE ROUTING
 - 3. GATE VALVES
 - 4. CONTROL VALVES
 - 5. CONTROL WIRE ROUTING
 - C. LOCATE ALL DIMENSIONS FROM TWO PERMANENT POINTS (BUILDINGS, SIDEWALKS, CURBS. OR PAVEMENTS)
 - D. RECORD ALL CHANGES WHICH ARE MADE FROM THE CONTRACT DRAWINGS, INCLUDING CHANGES IN THE PRESSURE AND NON-PRESSURE LINES.
 - E. MAINTAIN INFORMATION DAILY. KEEP CONTRACT DRAWINGS AT THE WORK SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE OWNER'S REPRESENTATIVE.

PART 2 - INSTALLATION

- 2.1 INSTALLATION, GENERAL
 - A. CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DISCREPANCIES IN EQUIPMENT USAGE, AREA DIMENSIONS, OR WATER PRESSURE EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IN WRITING. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED; THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISION NECESSARY.
 - B. STAKING: BEFORE INSTALLATION IS STARTED, PLACE A STAKE OR FLAG WHERE EACH SPRINKLER HEAD IS TO BE LOCATED, IN ACCORDANCE WITH DRAWING. STAKING SHALL BE APPROVED BY AN OWNER'S REPRESENTATIVE BEFORE PROCEEDING.
 - C. PIPING LAYOUT: PIPING LAYOUT IS DIAGRAMMATIC. ROUTE PIPING AROUND EXISTING TREES AND ROOT ZONES IN SUCH A MANNER AS TO AVOID DAMAGE TO PLANTINGS. DO NOT DIG WITHIN THE BALL OF NEWLY PLANTED TREES OR SHRUBS.
 - D. IN AREAS WHERE TREES ARE PRESENT, TRENCHES WILL BE ADJUSTED ON SITE TO PROVIDE A MINIMUM CLEARANCE OF FOUR TIMES THE TRUNK DIAMETER OF THE TREE (AT ITS BASE) BETWEEN ANY TREE AND ANY TRENCH.
 - E. ALL MATERIAL AND EQUIPMENT SHALL BE DELIVERED TO THE WORK SITE IN UNBROKEN REELS, CARTONS, OR OTHER PACKAGING TO DEMONSTRATE THAT SUCH MATERIAL IS NEW AND OF A QUALITY AND GRADE IN KEEPING WITH THE INTENT OF THESE SPECIFICATIONS.

2.2 EXCAVATION AND TRENCHING

- A. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION TO THE DEPTH INDICATED IN THESE SPECIFICATIONS AND CONTRACT DRAWINGS. THE BANKS OF THE TRENCHES SHALL BE KEPT AS NEARLY VERTICAL AS PRACTICABLE. TRENCHES SHALL BE WIDE ENOUGH TO ALLOW A MINIMUM OF FOUR (4) INCHES BETWEEN PARALLEL PIPELINES OR ELECTRICAL WIRING. WHERE ROCK EXCAVATION IS REQUIRED, OR WHERE STONES ARE ENCOUNTERED IN THE BOTTOM OF THE TRENCH THAT WOULD CREATE A CONCENTRATED PRESSURE ON THE PIPE, THE ROCK OR STONES SHALL BE REMOVED TO A DEPTH OF SIX (6) INCHES MINIMUM BELOW THE TRENCH DEPTH INDICATED. THE OVER DEPTH ROCK EXCAVATION AND ALL EXCESS TRENCH EXCAVATION SHALL BE BACKFILLED WITH LOOSE, MOIST EARTH OR SAND, THOROUGHLY TAMPED. WHENEVER WET OR OTHERWISE UNSTABLE SOIL THAT IS INCAPABLE OF PROPERLY SUPPORTING THE PIPE IN ENCOUNTERED IN THE TRENCH BOTTOM, SUCH SOIL SHALL BE REMOVED TO A DEPTH AND LENGTH AS REQUIRED, AND THE TRENCH BACKFILLED TO TRENCH BOTTOM GRADE AS HEREINAFTER SPECIFIED, WITH COURSE SAND, FINE GRAVEL OR OTHER SUITABLE MATERIAL.
- B. BOTTOM OF TRENCH GRADE SHALL BE CONTINUED PAST GROUND SURFACE DEVIATIONS TO AVOID AIR POCKETS AND LOW COLLECTION POINTS IN THE LINE. THE MINIMUM COVER SPECIFICATIONS SHALL GOVERN REGARDLESS OF VARIATIONS IN GROUND SURFACE PROFILE AND THE OCCASIONAL DEEPER EXCAVATION REQUIRED AT BANKS AND OTHER FIELD CONDITIONS. EXCAVATIONS SHALL BE SUCH THAT A UNIFORM TRENCH GRADE VARIATION WILL OCCUR IN ALL CASES WHERE VARIATIONS ARE NECESSARY.
- C. TRENCH EXCAVATION SHALL COMPRISE THE SATISFACTORY REMOVAL AND DISPOSITION OF ALL MATERIALS, AND SHALL INCLUDE ALL SHORING AND SHEETING REQUIRED TO PROTECT THE EXCAVATION AND TO SAFEGUARD EMPLOYEES.
- D. DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE BACK FROM THE EDGE OF TRENCHES TO AVOID OVERLOADING AND PREVENT SLIDES OR CAVE-INS. MATERIAL UNSUITABLE

FOR BACKFILLING SHALL BE WASTED AS DIRECTED BY THE OWNER'S REPRESENTATIVE. WHEN EXCAVATED, MATERIAL IS OF A ROCKY NATURE AND THE TOPSOIL OR ANY OTHER LAYER OF EXCAVATED MATERIAL IS SUITABLE FOR PIPE BEDDING AND BACKFILL IN THE VICINITY OF THE PIPE, SUCH MATERIAL SHALL BE SEPARATELY STOCKPILED FOR USE IN SUCH BEDDING AND PIPE BACKFILL OPERATIONS, UNLESS SATISFACTORY IMPORTED MATERIAL IS USED.

- E. ALL EXCAVATIONS AND BACKFILL SHALL BE UNCLASSIFIED AND COVERED IN THE BASIC BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ROCK ENCOUNTERED.
- F. RESTORE ALL SURFACES, EXISTING UNDERGROUND INSTALLATIONS, ETC., DAMAGED OR CUT AS A RESULT OF THE EXCAVATIONS TO THEIR ORIGINAL CONDITIONS IN A MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

2.3 HYDROSTATIC TESTS

A. PRESSURE TEST: AFTER THE PIPE IS LAID, THE JOINTS COMPLETED, AND THE TRENCH PARTIALLY BACKFILLED, LEAVING THE JOINTS EXPOSED FOR EXAMINATION, THE NEWLY LAID PIPING OR ANY VALVED SECTION OF MAIN PRESSURE LINE PIPING SHALL, UNLESS OTHERWISE SPECIFIED, BE SUBJECTED FOR FOUR (4) HOURS TO A HYDROSTATIC PRESSURE TEST OF NORMAL CITY WATER PRESSURE. EACH VALVE SHALL BE OPENED AND CLOSED DURING THE TEST. ENCLOSED PIPE, JOINTS, FITTINGS, OR VALVES SHALL BE CAREFULLY EXAMINED DURING THE PARTIALLY OPEN TRENCH TEST. JOINTS SHOWING VISIBLE LEAKAGE SHALL BE REPLACED OR REMADE, AS NECESSARY. CRACKED OR DEFECTIVE PIPE, JOINTS, FITTINGS, OR VALVES DISCOVERED IN CONSEQUENCE OF THIS PRESSURE TEST SHALL BE REPLACED AND THE TEST SHALL BE REPEATED UNTIL THE RESULTS ARE SATISFACTORY. ALL REPLACEMENTS AND REPAIRS SHALL BE AT THE CONTRACTOR'S COST.

2.4 CONTROL WIRE INSTALLATION

- A. ALL CONTROL WIRE LESS THAN FIVE HUNDRED (500) FEET IN LENGTH SHALL BE CONTINUOUS WITHOUT SPLICES OR JOINTS FROM THE CONTROLLER TO THE VALVES. CONNECTIONS TO THE ELECTRIC VALVES SHALL BE MADE WITHIN EIGHTEEN (18) INCHES OF THE VALVE USING CONNECTORS THAT HAVE A TWO-PIECE PVC HOUSING WHICH, WHEN FILLED WITH RESIN EPOXY AND PRESSED TOGETHER, FORMS A PERMANENT, ONE-PIECE, MOISTURE-PROOF WIRE SPLICE.
- B. ALL CONTROL WIRES SHALL BE INSTALLED AT LEAST EIGHTEEN (18) INCHES DEEP. CONTRACTOR SHALL OBTAIN THE OWNER'S REPRESENTATIVE'S APPROVAL FOR WIRE ROUTING WHEN INSTALLED IN A SEPARATE TRENCH. CONTROL WIRES MAY BE INSTALLED IN COMMON TRENCH WITH PIPING; HOWEVER, WIRES MUST BE INSTALLED A MINIMUM OF FOUR (4) INCHES BELOW OR TO ONE SIDE OF PIPING.
- C. ALL WIRE PASSING UNDER EXISTING OR FUTURE PAVING, SIDEWALK, CONSTRUCTION, ETC., SHALL BE ENCASED IN PVC SCHEDULE 40 CONDUIT EXTENDING AT LEAST TWO (2) FEET BEYOND EDGES OF PAVING, SIDEWALKS, OR CONSTRUCTION.
- 2.5 BACKFILL AND COMPACTION
 - A. AFTER SYSTEM IS OPERATING AND REQUIRED TESTS AND INSPECTIONS HAVE BEEN MADE, THE TRENCHES SHALL BE CAREFULLY BACKFILLED WITH THE EXCAVATED MATERIALS APPROVED FOR BACKFILLING, CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND, GRAVEL, SOFT SHALE, OR OTHER APPROVED MATERIALS, FREE FROM LARGE CLODS OF EARTH OR STONE. ROCK, BROKEN CONCRETE OR PAVEMENT, AND LARGE BOULDERS SHALL NOT BE USED AS BACKFILL MATERIAL. THE BACKFILL SHALL BE THOROUGHLY COMPACTED AND EVENED WITH THE ADJACENT SOIL LEVEL.
 - B. COMPACT TRENCHES IN AREAS TO BE PLANTED BY THOROUGHLY FLOODING THE BACKFILL. COMPACT ALL OTHER AREAS BY FLOODING OR HAND TAMPING. THE JETTING PROCESS MAY BE USED IN AREAS WHEN FLOODING.
 - C. BACKFILL FOR ALL TRENCHES, REGARDLESS OF THE TYPE OF PIPE COVERED, SHALL BE COMPACTED TO A MINIMUM DENSITY OF NINETY (90) PERCENT.
 - D. ANY TRENCHES IMPROPERLY BACKFILLED, OR WHERE SETTLEMENT OCCURS, SHALL BE REOPENED TO THE DEPTH REQUIRED FOR COMPACTION, THEN REFILLED AND COMPACTED WITH THE SURFACE RESTORED TO THE REQUIRED GRADE AND LEFT IN A COMPLETED SURFACE CONDITION AS DESCRIBED ABOVE.
 - E. SPECIFICALLY TAMP BACKFILL UNDER HEADS AND AROUND THE FLANGE OF HEADS FOR ONE (1) FOOT BY A SUITABLE MEANS AFTER TRENCH BACKFILL HAS DRIED FROM FLOODING TO PREVENT HEADS LOOSENING IN THE GROUND.
- 2.6 FINAL ADJUSTMENT
 - A. AFTER INSTALLATION, HAS BEEN COMPLETED, MAKE FINAL ADJUSTMENT OF IRRIGATION SYSTEM PRIOR TO OWNER'S REPRESENTATIVE'S FINAL INSPECTION.
 - B. COMPLETELY FLUSH SYSTEM TO REMOVE DEBRIS FROM LINES BY REMOVING NOZZLE FROM HEADS ON ENDS OF LINES AND TURNING ON SYSTEM.
 - C. CHECK HEADS FOR PROPER OPERATION AND PROPER ALIGNMENT FOR DIRECTION OF THROW.

- BY USE OF FLOW ADJUSTMENT ON TOP OF EACH VALVE.
- E. CHECK NOZZLING FOR PROPER COVERAGE. PREVAILING WIND CONDITIONS MAY FURNISH RECORD DATA TO OWNER'S REPRESENTATIVE WITH EACH CHANGE.
- SHALL BE ADJUSTED TO CONTROL PRESSURE AT HEADS. USE THE FOLLOWING METHOD, ONE CIRCUIT AT A TIME:
 - RE-INSTALL HEAD WITH NIPPLE ONTO TEE. 2. CORRECT OPERATING PRESSURE AT LAST HEAD OF EACH CIRCUIT AS FOLLOWS:
 - a. ROTORS MINIMUM OF FORTY (40) PSI.

2.7 CLEAN-UP

- UNUSED OR SALVAGED MATERIALS, EQUIPMENT, TOOLS, ETC.
- WORK SITE SHALL BE RAKED CLEAN AND LEFT IN AN ORDERLY CONDITION

D. CHECK EACH CIRCUIT FOR OPERATING PRESSURE AND BALANCE TO OTHER CIRCUITS

INDICATE THAT ARC OR ANGLE OF SPRAY SHOULD BE OTHER THAN AS SHOWN ON DRAWINGS, IN THIS CASE, CHANGE NOZZLES TO PROVIDE CORRECT COVERAGE AND

F. AFTER SYSTEM IS THOROUGHLY FLUSHED AND READY FOR OPERATION, EACH CIRCUIT

1. REMOVE LAST HEAD ON CIRCUIT AND INSTALL TEMPORARY RISER ABOVE GRADE. INSTALL TEE WITH PRESSURE GAUGE ATTACHED ON TOP OF RISER AND

3. AFTER REPLACING HEAD, AT GRADE, TAMP THOROUGHLY AROUND HEAD.

A. THE WORK SITE SHALL BE THOROUGHLY CLEANED OF ALL WASTE MATERIALS AND ALL

B. AFTER COMPLETION OF THE WORK, AREAS DISTURBED SHALL BE LEVELED AND THE

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SHEET TITLE: IRRIGATION NOTES					
SHEET #:					