

COST SUMMARY

Project:	HIDDEN FOR PRIVACY
Address:	HIDDEN FOR PRIVACY
Scope:	CIVIL & SITE WORK
Date:	-

Website: www.alfasquareestimationa.com
Email: info@alfasquareestimations.com
Contact +17-869-476685



CSI DIV.	DESCRIPTION	TOTAL TRADE COST	REMARKS		
DIV. 01	GENERAL REQUIREMENTS	\$ 70,000			
DIV. 02	DEMOLITION	\$ 76,764			
DIV. 31	EARTG WORK	\$ 451,436			
DIV. 32	EXTERIOR IMPROVEMENT	\$ 541,177			
DIV. 33	UTILITIES	\$ 201,862			
	SUBTOTAL	\$ 1,341,239			
	OVERHEAD & PROFIT - 15%	\$ 201,186			
	TOTAL BID	\$ 1,542,425			
	EXCLUSIONS				
	ALL ITEMS NOT MENTIONED ABOVE ARE EXCLUDED				

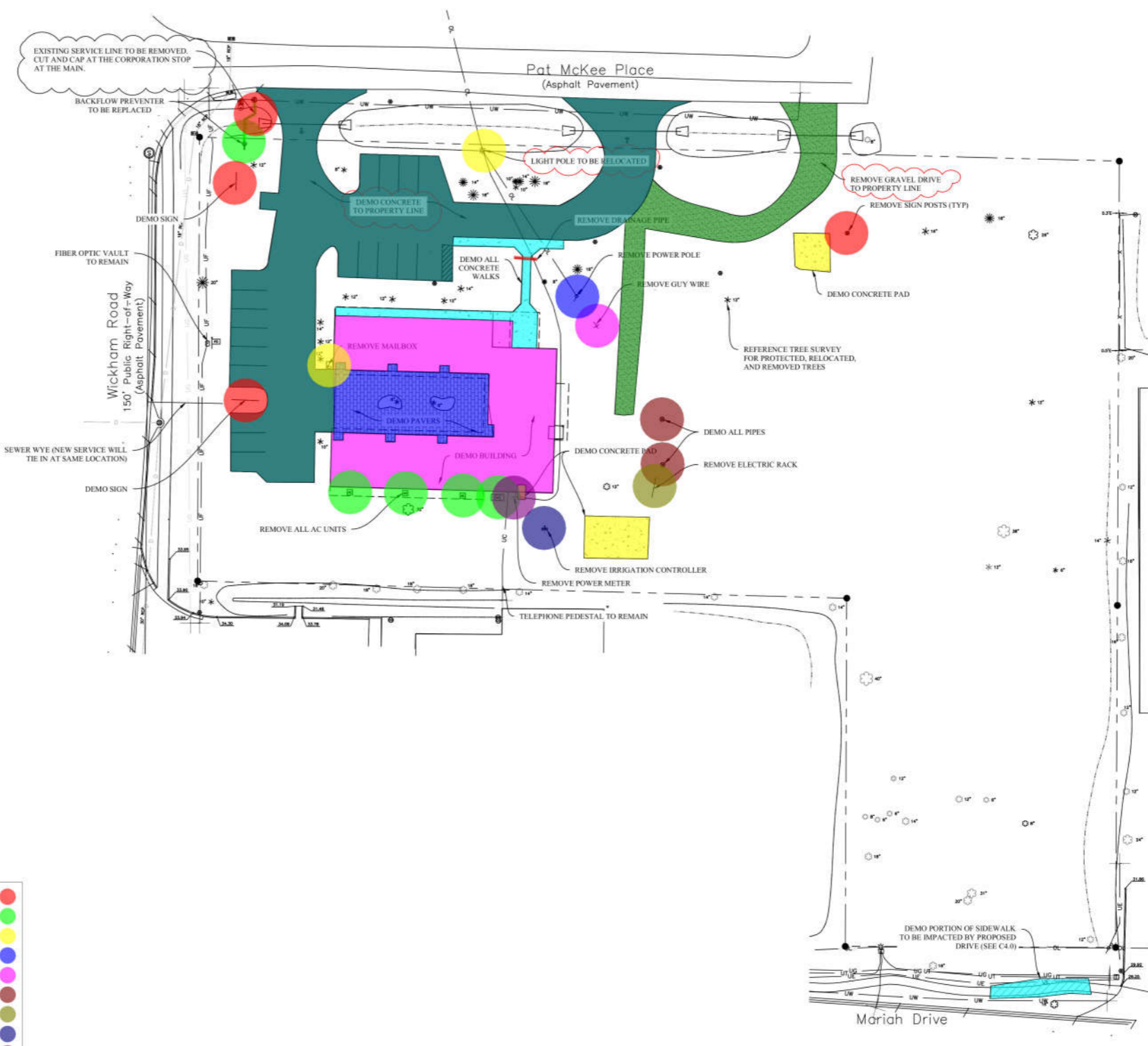
GENERAL NOTES:

1. THIS ORIGINAL DRAWING IS THE PROPERTY OF THOMPSON ENGINEERING, INC. REPRODUCTION OF THIS PRINT IS PROHIBITED WITHOUT PERMISSION OF THIS FIRM.
2. ADDITIONAL INFORMATION IS OFTEN ADDED IN A CONTINUOUS UPDATING PROCESS. CHECK FOR LATEST REVISION DATA BEFORE ACTING ON DATA SHOWN. THE ENGINEER IS NOT RESPONSIBLE FOR ACTIONS OR WORK BASED UPON OBSOLETE DATA FOR WHICH THE ENGINEER WAS NOT SPECIFICALLY CONSULTED.
3. THE SERVITUDES AND RESTRICTIONS SHOWN ON THIS PLAN ARE LIMITED TO THOSE SET FORTH IN THE DESCRIPTIONS PROVIDED TO US BY OTHERS & THERE IS NO REPRESENTATION BY THIS FIRM THAT ALL APPLICABLE SERVITUDES AND RESTRICTIONS ARE SHOWN HEREON.
4. THIS PLAN IS NOT TO BE CONSTRUED AS A LEGAL BOUNDARY SURVEY. APPARENT BOUNDARY INFORMATION REFERENCED FROM THE ALTA PROVIDED BY SURVTECH SOLUTIONS, INC. DATED 10/28/2022. CONTRACTOR SHALL CONFIRM PROPERTY BOUNDARY LOCATIONS PRIOR TO CONSTRUCTION.
5. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY THE EXISTENCE OF & THE EXACT LOCATION OF ALL UTILITIES WITHIN AND ADJACENT TO THE PROJECT. THE CONTRACTOR MUST CONTACT ALL UTILITY COMPANIES FORTY- EIGHT HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND HAVE THEIR FACILITIES LOCATED IN THE FIELD PRIOR TO ANY WORK. ANY REQUEST FOR UNDERGROUND UTILITIES SHOULD BE MADE THROUGH FLORIDA ONE CALL (1-800-432-4770) BEFORE DIGGING.
6. CONTOURS SHOWN REFER TO EXISTING GRADE. ALL SURFACE ELEVATIONS SHOWN IN NAVD 1988 DATUM.
7. BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP (FIRM), MAP NUMBER 12090C0510H, MAP REVISED/DATED JANUARY 29, 2021 THE ABOVE DESCRIBED PROPERTY IS WITHIN ZONE "X".
8. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF MELBOURNE, STATE OF FLORIDA REGULATION AND CODES, AS WELL AS ALL O.S.H.A. STANDARDS.
9. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS INDICATED ON THE PLANS.
10. CONTRACTOR IS TO NOTIFY CITY OF MELBOURNE INSPECTORS 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
11. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE WORK BEGINS. (INCLUDING FL DOT UTILITY ENCROACHMENT PERMIT.)
12. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN REQUIRED RIGHT-OF-WAY, AND MUST BE STORED WITHIN THE SITE. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN AREAS WHICH RESTRICT SIGHT DISTANCE.
13. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD ANY FIELD CONDITIONS BE NOTED THAT DIFFER FROM THE SURVEY.

LEGEND & ABBREVIATIONS:

●	FOUND IRON ROD OR PIPE	□	FIBER OPTIC VAULT
○	BACKFLOW PREVENTER	□	FIBER OPTIC CABLE MARKER
○	FIRE HYDRANT	□	AIR CONDITIONING UNIT
○	IRRIGATION CONTROL VALVE	□	MAILBOX
○	WATER VALVE	○	MISCELLANEOUS ITEM
○	BACK OF CURB ELEVATION	○	SIGN
○	EDGE OF PAVEMENT ELEVATION	□	CABLE TELEVISION PEDESTAL
○	SPOT ELEVATION	□	TELEPHONE PULL BOX
○	SPOT ELEVATION ON HARD SURFACE	○	OAK
○	POWER POLE	○	PALM
○	GUY WIRE	○	PINE
○	LIGHT POLE	○	FENCE
○	CLEANOUT	—○—○—	OVERHEAD UTILITY LINES
○	SANITARY MANHOLE	—○—○—	UNDERGROUND DRAINAGE PIPE
○	CATCH BASIN	—○—○—	UNDERGROUND WATER LINE
○	MITERED END-SECTION	—○—○—	UNDERGROUND GAS LINE
○	STORM MANHOLE	—○—○—	UNDERGROUND FIBER OPTIC CABLE LINE
		—○—○—	UNDERGROUND CABLE LINE
		—○—○—	UNDERGROUND ELECTRIC LINE
		—○—○—	UNDERGROUND TELEPHONE LINE
		—	LINE CONTINUES
		—	END OF INFORMATION

●	Cut & Cap @ Existing Service Line	1.0 EA
●	Existing Backflow Preventor To Be Removed	1.0 EA
●	Existing Light Pole To Be Removed	1.0 EA
●	Existing Power Pole To Be Removed	1.0 EA
●	Existing Guy Wire To Be Removed	1.0 EA
●	Existing Pipes To Be Removed	2.0 EA
●	Existing Electrical Rack To Be Removed	1.0 EA
●	Existing Irrigation Controller To Be Removed	1.0 EA
●	Existing Power Meter To Be Removed	1.0 EA
●	Existing Post Sign To Be Removed	3.0 EA
●	Existing AC Unit To Be Removed	4.0 EA
●	Existing Mail Box To Be Removed	1.0 EA
—	Existing Water Service Line To Be Removed	21.2 FT
—	Existing Drainage Pipe To Be Removed	10.7 FT
—	Existing Concrete Pavement & Driveway To Be Removed	11592.2 SQ FT
—	Existing Concrete Pad To Be Removed	889.7 SQ FT
—	Existing Pavers To Be Removed	2185.8 SQ FT
—	Existing Building To Be Removed	5664.5 SQ FT
—	Existing Concrete Side Walk To Be Removed	1216.5 SQ FT
—	Existing Gravel Drive To Be Removed	2770.5 SQ FT



1 DEMO PLAN
C1.3 SCALE: 1" = 30'
 **NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 60'

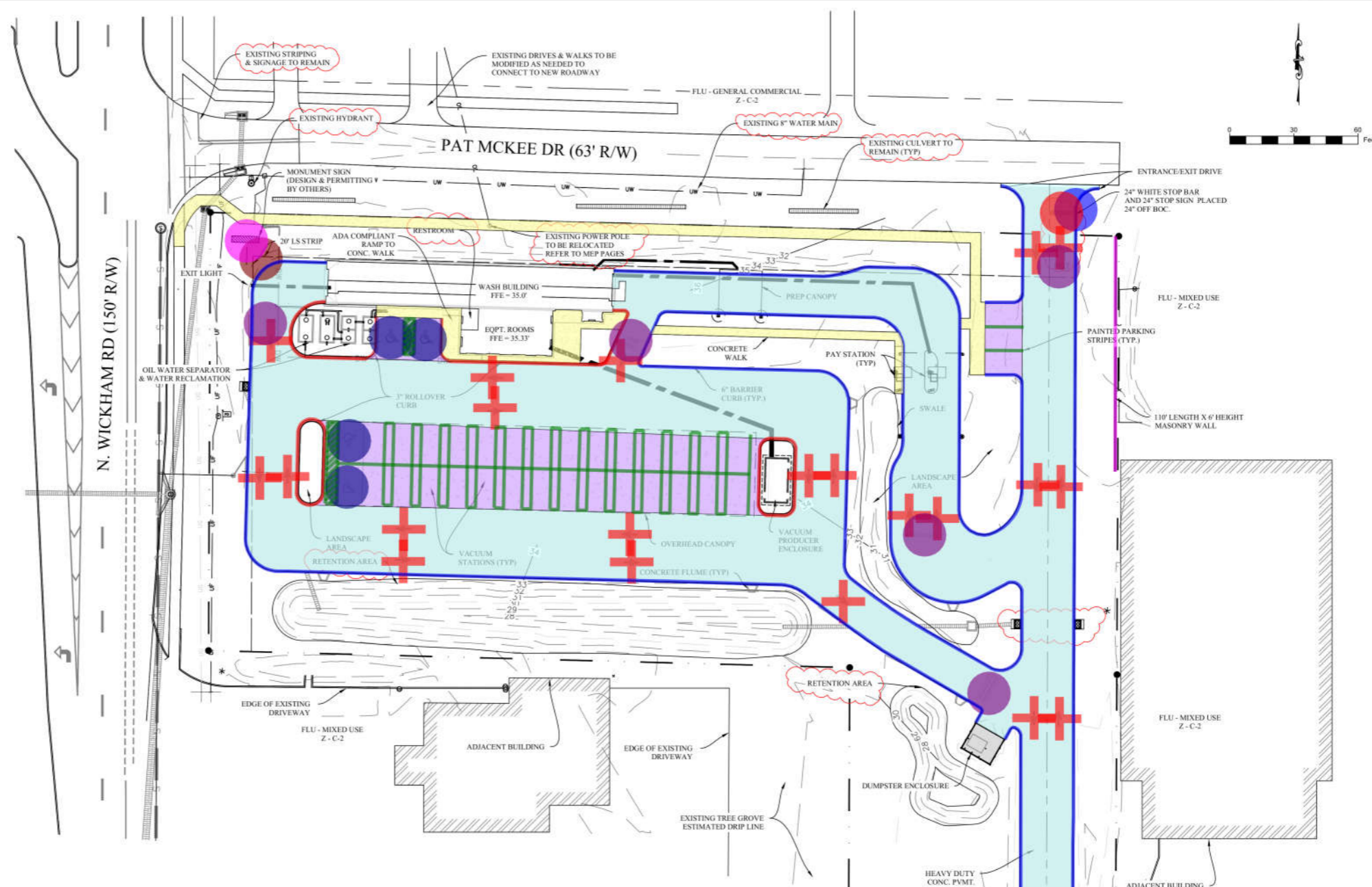
FILE NAME: C1.3 - DEMO PLAN.DWG PLOTTED ON: 24-0131

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6. CONTOURS SHOWN REFER TO PROPOSED GRADE. ALL SURFACE ELEVATIONS SHOWN IN NAVD 1988 DATUM.
7. BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP (FIRM), MAP NUMBER 12009C0510H, EFFECTIVE JANUARY 29, 2021 THE ABOVE DESCRIBED PROPERTY IS WITHIN ZONE "X".

LEGEND & ABBREVIATIONS:

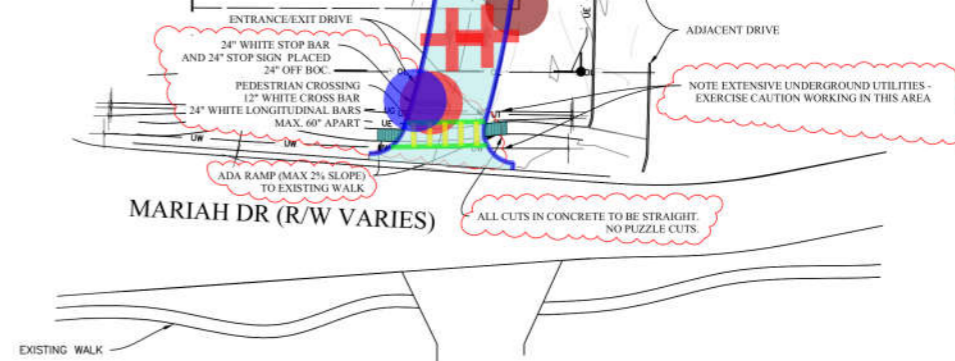
- | | |
|---|---------------------------------|
| ● FOUND IRON ROD OR PIPE | — S — 6" PVC SEWER SERVICE |
| NTS NOT TO SCALE | — DW — 2" DOMESTIC WATER SUPPLY |
| NAVD NORTH AMERICAN VERTICAL DATUM | — WM — WATER MAIN |
| FFE FINISHED FLOOR ELEVATION | ⊙ SEWER SERVICE MAN HOLE (SSMH) |
| IE INVERT ELEVATION | ⊕ FIBER OPTIC VAULT |
| ⊖ INVERT | ⊕ FIBER OPTIC CABLE MARKER |
| ⊖ BLACKFLOW PREVENTER | ⊕ CABLE TELEVISION PEDESTAL |
| ⊕ FIRE HYDRANT | ⊕ TELEPHONE PULL BOX |
| ⊕ IRRIGATION CONTROL VALVE | |
| ⊕ WATER VALVE | — 3" ROLLOVER CURB |
| ♿ HANDICAP PARKING SPACE | — 6" BARRIER CURB |
| OL—OL OVERHEAD UTILITY LINES | |
| —D—D UNDERGROUND DRAINAGE PIPE | |
| —W—W UNDERGROUND WATER LINE | |
| —G—G UNDERGROUND GAS LINE | |
| —F—F UNDERGROUND FIBER OPTIC CABLE LINE | |
| —C—C UNDERGROUND CABLE LINE | |
| —E—E UNDERGROUND ELECTRIC LINE | |
| —T—T UNDERGROUND TELEPHONE LINE | |
| — P — PROPERTY LINE | |
| HEAVY DUTY CONCRETE | |
| LIGHT DUTY CONCRETE | |
| 4" CONC. | |



1 SITE PLAN

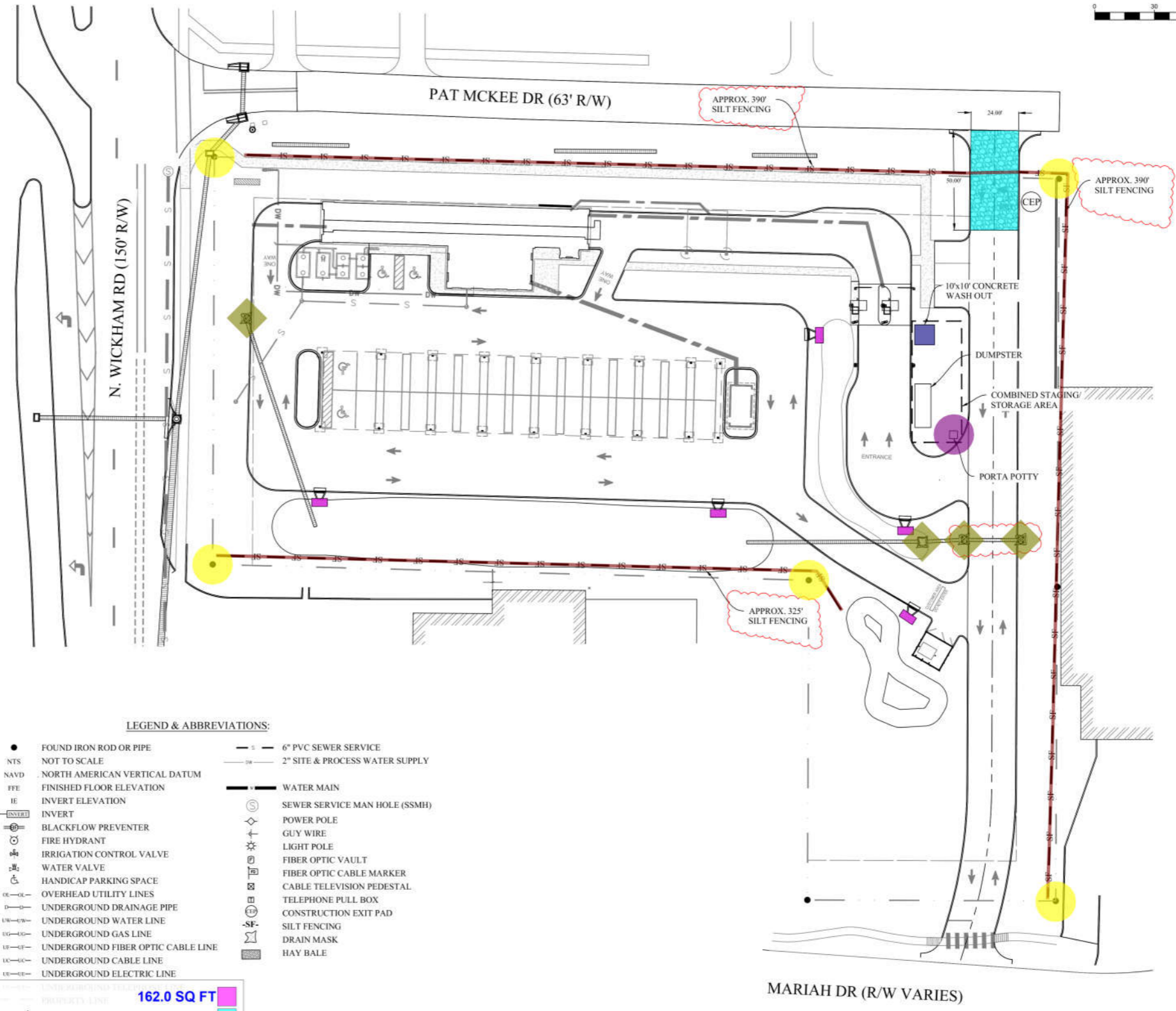
C2.0 SCALE: 1" = 30'
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Heavy Duty Concrete Pavement	41236.2 SQ FT
Light Duct Concrete Pavement	8958.7 SQ FT
4" Thick Concrete Side Walk	3958.8 SQ FT
ADA Ramp	59.6 SQ FT
3" Rollover Curb	410.0 FT
6" Barrier Curb	2236.9 FT
Masonry Wall - (6'-0" H)	110.1 FT
4" Wide Painted White Pavement Parking Strips	1629.8 FT
12" Wide Cross Bars, Painted White	56.3 FT
24" Longitudinal Bars, Painted White	38.5 FT
Existing Light Pole To Be Removed	0.0 EA
LS Strip - 20'-0" LF	2.0 EA
Pavement Marking Directional Arrows Signs, Painted ...	23.0 EA
Pavement ADA Parking Signs, Painted White	4.0 EA
Pavement Letter, Painted White	5.0 EA
24" Wide Stop Bar, Painted White - (12'-6" LF)	2.0 EA
Stop Sign	2.0 EA
Monument Sign (Design & Permitting By Others)	1.0 EA



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LEGEND & ABBREVIATIONS:

- | | | | |
|--------|------------------------------------|---|--------------------------------|
| ● | FOUND IRON ROD OR PIPE | — | 6" PVC SEWER SERVICE |
| NTS | NOT TO SCALE | — | 2" SITE & PROCESS WATER SUPPLY |
| NAVD | NORTH AMERICAN VERTICAL DATUM | — | WATER MAIN |
| FFE | FINISHED FLOOR ELEVATION | ⊙ | SEWER SERVICE MAN HOLE (SSMH) |
| IE | INVERT ELEVATION | ◇ | POWER POLE |
| INVERT | INVERT | + | GUY WIRE |
| ⊙ | BLACKFLOW PREVENTER | ⊙ | LIGHT POLE |
| ⊙ | FIRE HYDRANT | ⊙ | FIBER OPTIC VAULT |
| ⊙ | IRRIGATION CONTROL VALVE | ⊙ | FIBER OPTIC CABLE MARKER |
| ⊙ | WATER VALVE | ⊙ | CABLE TELEVISION PEDESTAL |
| ⊙ | HANDICAP PARKING SPACE | ⊙ | TELEPHONE PULL BOX |
| ⊙ | OVERHEAD UTILITY LINES | ⊙ | CONSTRUCTION EXIT PAD |
| ⊙ | UNDERGROUND DRAINAGE PIPE | ⊙ | SILT FENCING |
| ⊙ | UNDERGROUND WATER LINE | ⊙ | DRAIN MASK |
| ⊙ | UNDERGROUND GAS LINE | ⊙ | HAY BALE |
| ⊙ | UNDERGROUND FIBER OPTIC CABLE LINE | | |
| ⊙ | UNDERGROUND CABLE LINE | | |
| ⊙ | UNDERGROUND ELECTRIC LINE | | |

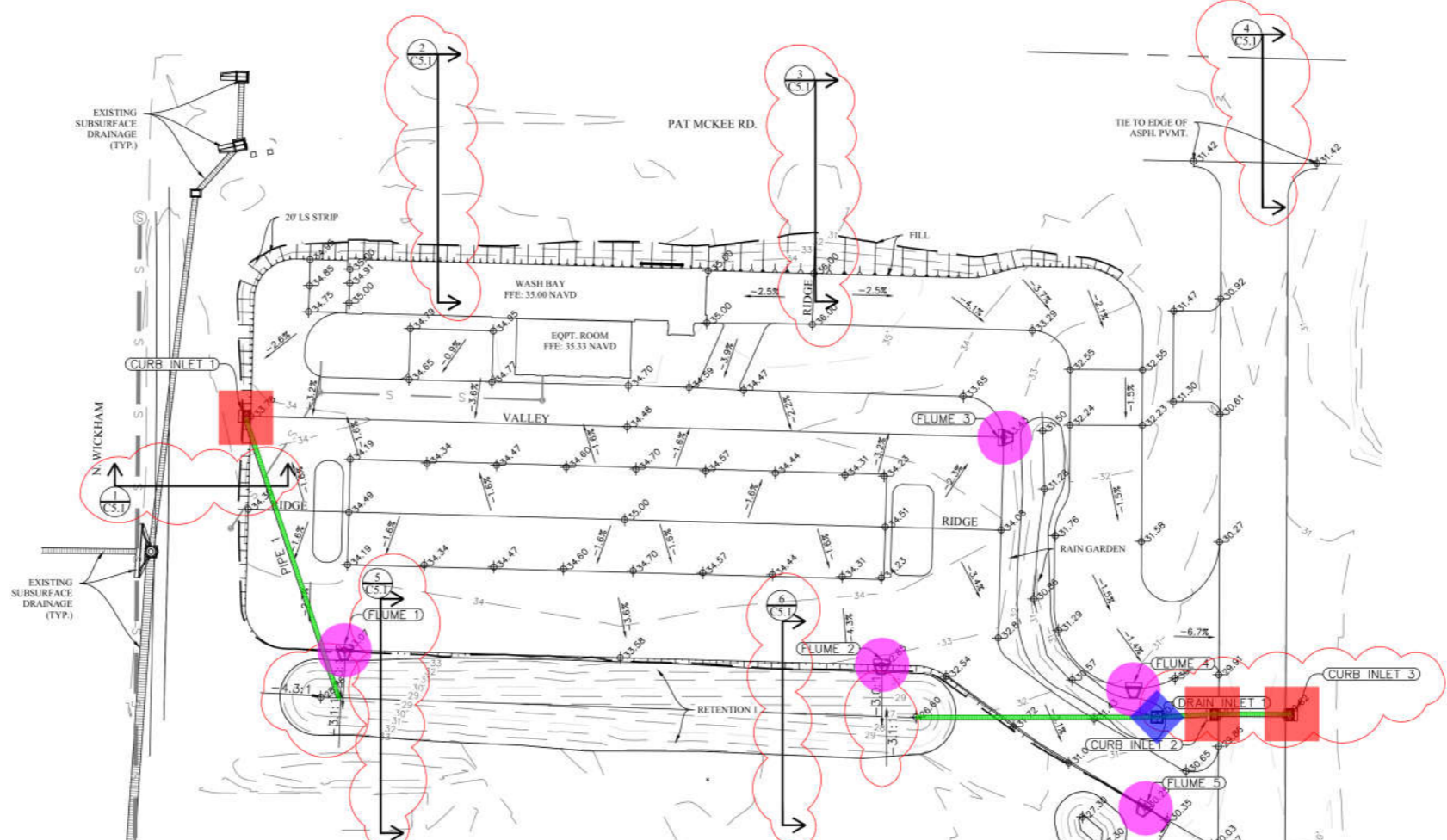
- | | | | |
|---|--|---|--------------|
| ■ | Hay Bale | ■ | 162.0 SQ FT |
| ■ | Construction Entrance (2-3" Stone Over Geotextile Underlinear) | ■ | 1206.3 SQ FT |
| ■ | Concrete Wash Out Area | ■ | 101.6 SQ FT |
| ■ | Silt Fence | ■ | 1105.7 FT |
| ● | Found Iron Rod Or Pipe | ● | 5.0 EA |
| ● | (6'-0"x6'-0") SS-300 Curb Inlet Filter Or Equal | ● | 4.0 EA |
| ● | (4'-0"x4'-0") Porta Potty | ● | 1.0 EA |

1 EROSION CONTROL PLAN
C3.0 SCALE: 1" = 30'
 **NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 60'

FILE NAME: C3.0 - EROSION CONTROL PLAN.DWG PLOTTED ON: 24-0131

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- BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP (FIRM), MAP NUMBER 12099C, MAP REVISED/DATED JANUARY 29, 2021 THE ABOVE DESCRIBED PROPERTY IS WITHIN ZONE "X".
- ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF MELBOURNE, STATE OF FLORIDA REGULATION AND CODES, AS WELL AS ALL O.S.H.A. STANDARDS.
- BUILDING DIMENSIONS SHOWN ON THIS PLAN ARE "LEASE" DIMENSIONS. FOR ACTUAL DIMENSIONS, SEE ARCHITECTURAL PLANS. DIMENSIONS TO CONC. CURB & GUTTER ARE TO "FACE OF CURB".
- SITE WORK CONTRACTOR IS RESPONSIBLE FOR WORK TO WITHIN 5'-0" OF THE BUILDING.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS INDICATED ON THE PLANS IN THE SPECIFICATIONS.
- CONTRACTOR IS TO NOTIFY MELBOURNE INSPECTORS 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS. (INCLUDING FL DOT UTILITY ENCROACHMENT PERMIT.)
- SIGNS ARE TO MEET ALL REQUIREMENTS SET FORTH IN APPENDIX D CHAPTER 11 OF MELBOURNE CITY CODE. SEPARATE PERMITTING IS REQUIRED.
- CONSTRUCTION TRAILER USED ON-SITE SHALL BE PERMITTED THROUGH THE CITY OF MELBOURNE CITY CODE. SEPARATE PERMITTING IS REQUIRED.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN REQUIRED RIGHT-OF-WAY, AND MUST BE STORED WITHIN THE SITE. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN AREAS WHICH RESTRICT SIGHT DISTANCE.
- THE EXACT LOCATION OF HANDICAP RAMPS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS AND SHALL BE PROVIDED AT THE INTERSECTIONS OF EACH APPLICABLE SIDEWALK, ACCESSIBLE ROUTE, & ENTRANCE DRIVES.
- ALL SIDEWALKS ARE TO BE INSTALLED PER ADA STANDARDS. SIDEWALKS TO HAVE A MAX SLOPE OF 5% & MAX CROSS SLOPE OF 2%.
- SITE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS INDICATING ALL CHANGES AND ELEVATIONS.
- BUILDING LOCATION IS TO THE OUTSIDE FACE OF BLOCK. CONTRACTOR TO COORDINATE AND VERIFY EXACT BUILDING LOCATION & DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL NOTIFY ENGINEER SHOULD ANY FIELD CONDITIONS BE NOTED THAT DIFFER FROM THE SURVEY.
- PARKING CONDITIONS ARE TO MEET OR EXCEED STANDARDS SET FORTH IN APPENDIX D CHAPTER 9, ARTICLE V OF THE CITY OF MELBOURNE CITY CODE.
- LANDSCAPING TO MEET ALL REQUIREMENTS SET FORTH IN APPENDIX D, CHAPTER 9, ARTICLE XV OF THE CITY OF MELBOURNE CITY CODE.
- STORM WATER WILL MEET ALL CONDITIONS SET FORTH IN CHAPTER 50 OF MELBOURNE CITY CODE.
- SITE PLAN WILL MEET ALL CARWASH DEVELOPMENT STANDARDS PER CITY OF MELBOURNE:
 - DRIVE AISLES DESIGNED FOR QUEUING INTO THE AUTOMATIC CAR WASH FACILITY SHALL BE A MINIMUM OF 10 FEET WIDE.
 - SITE IS TO BE DESIGNED TO ELIMINATE OVERSPRAY FROM THE CAR WASH FACILITY ON ADJACENT PROPERTIES. ADDITIONAL SETBACKS OR A PHYSICAL BARRIER MAY BE REQUIRED TO ELIMINATE OVER SPRAY.
 - BUFFER REQUIREMENTS WHEN ABUTTING RESIDENTIALLY ZONED OR DEVELOPED PROPERTY: A 15' WIDE VEGETATIVE BUFFER AREA WITH A 6' HIGH MASONRY WALL SET A MINIMUM 6" INSIDE THE PROPERTY LINE AND ONE ADDITIONAL TREE FOR EVERY 25 L.F. OF THE PROPERTY BOUNDARY PLANTED ALONG THE YARD ABUTTING THE RESIDENTIALLY ZONED OR DEVELOPED PROPERTY, ALONG WITH SOD OR OTHER GROUND COVER. ("ADDITIONAL" AS USED HEREIN MEANS IN ADDITION TO THE REQUIREMENTS OF APPENDIX D, CH. 9, ART XV, OF THE CITY CODE).
 - LOCATE STACKING LANES AWAY FROM ADJACENT SENSITIVE USES, SUCH AS RESIDENTIAL AND OUTDOOR AMENITY AREAS, TO REDUCE THE IMPACTS OF NOISE AND POLLUTION THAT COULD BE CAUSED BY STACKING CARS NEAR SUCH USES.
 - LOCATE ACCESS POINTS FOR STACKING LANES AWAY FROM RIGHT-OF-WAYS AND DRIVEWAYS SO THAT QUEUED VEHICLES DO NOT BLOCK THE TRAFFIC ALONG RIGHTS-OF-WAY OR THE MOVEMENT OF OTHER VEHICLES ON-SITE.
 - PROVIDE ESCAPE LANES & THE APPROPRIATE NUMBER OF QUEUING SPACES TO CREATE EFFICIENT STACKING LANES AND TO MINIMIZE ON-SITE CONFLICTS.
 - ALLOW A SUFFICIENT DRIVING DISTANCE FROM THE CAR WASH TO THE EXIT TO THE RIGHT-OF-WAY TO MINIMIZE TRACKING WATER ONTO THE STREET.
 - PROVIDE SEPARATE STACKING LANES WHEN TWO DRIVE-THROUGH USES EXISTS ON THE SAME SITE.
 - SEPARATE STACKING LANES FROM PARKING AREAS & DRIVEWAYS BY USING LANDSCAPED ISLANDS, DECORATED PAVEMENT, PREVIOUS ISLANDS, OR PAINTED LINES.
 - DESIGN THE ON-SITE CIRCULATION TO MINIMIZE THE CONFLICTS BETWEEN PEDESTRIANS & VEHICLES.
- DUMPSTERS WILL MEET/EXCEED APP D, CHAPTER 9, ARTICLE II, SETBACK WAIVER WILL BE REVIEWED BY PUBLIC WORKS DIRECTOR DURING CONSTRUCTION PLAN REVIEW PROCESS.
- WALLS/FENCES WILL MEET/EXCEED APP D, CHAPTER 9, ARTICLE III, SEPARATE PERMIT IS REQUIRED.
- VEHICLE PATH FROM TUNNEL EXIT TO R/W IS 739 FEET. AFTER VEHICLE IS BLOWN DRY EXITING THE WASH TUNNEL AND TRAVELS THE 739 FEET EXIT ROUTE DISTANCE, THE AMOUNT OF WATER TRACKING ONTO THE R/W IS NEGLIGIBLE IF ANY.
- MONUMENT SIGN NOT TO EXCEED 12' IN HEIGHT AND 72 S.F. FLOWERS TO BE PLANTED AT BASE OF SIGN.
- SEPARATE BUILDING PERMIT WILL BE REQUIRED FOR DUMPSTER ENCLOSURE. ALL DETAILS SHOWN ON SITE PLAN AND CONSTRUCTION PLANS ARE FOR REFERENCE ONLY.



1 GRADING & DRAINAGE PLAN

C5.0 SCALE: 1" = 30'
 **NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 60"
 **NOTE: SPOT ELEVATIONS ARE SHOWN TO TOP OF PVMT. ADD CURB/SIDEWALK HEIGHT FOR ELEVATIONS AT THOSE LOCATIONS.

- LEGEND & ABBREVIATIONS:**
- FOUND IRON ROD OR PIPE
 - NTS NOT TO SCALE
 - NAVD NORTH AMERICAN VERTICAL DATUM
 - FFE FINISHED FLOOR ELEVATION
 - IE INVERT ELEVATION
 - INVERT
 - BLACKFLOW PREVENTER
 - FIRE HYDRANT
 - IRRIGATION CONTROL VALVE
 - WATER VALVE
 - HANDICAP PARKING SPACE
 - UNDERGROUND DRAINAGE PIPE
 - UNDERGROUND WATER LINE
 - UNDERGROUND GAS LINE
 - UNDERGROUND FIBER OPTIC CABLE LINE
 - UNDERGROUND CABLE LINE
 - UNDERGROUND ELECTRIC LINE
 - UNDERGROUND TELEPHONE LINE
 - PROPERTY LINE
 - 4" CONC.
 - 6" PVC SEWER SERVICE
 - 2" SITE & PROCESS WATER SUPPLY
 - 3/4" DOMESTIC WATER SUPPLY
 - 16" WATER MAIN
 - SEWER SERVICE MAN HOLE (SSMH)
 - OAK
 - PALM
 - PINE
 - POWER POLE
 - GUY WIRE
 - LIGHT POLE
 - FIBER OPTIC VAULT
 - FIBER OPTIC CABLE MARKER
 - CABLE TELEVISION PEDESTAL
 - TELEPHONE PULL BOX

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
FG Vol	1.000	1.000	82577.24 Sq. Ft.	525.97 Cu. Yd.	3032.89 Cu. Yd.	2506.92 Cu. Yd.<Fill>
Totals			82577.24 Sq. Ft.	525.97 Cu. Yd.	3032.89 Cu. Yd.	2506.92 Cu. Yd.<Fill>

****NOTE: CUT/FILL SUMMARY IS AN ESTIMATE BASED ON EXISTING GRADE CONDITIONS AT TIME OF ORIGINAL TOPOGRAPHIC SURVEY, COMPARED TO DESIGNED FINISHED GRADE (TOP OF PAVEMENT). THE CALCULATIONS ARE A COMPARISON OF IN PLACE EARTHWORK, AND DO NOT ACCOUNT FOR IMPACTS OF SHRINK/SWELL OF MATERIAL DURING TRANSPORT.**

15" Dia Reinforced Concrete Pipe

- Concrete Flume
- Curb Inlet
- Deain Inlet

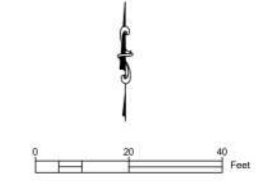
251.1 FT
 5.0 EA
 3.0 EA
 1.0 EA

INLET TABLE

STRUCTURE	DETAILS:	PIPES IN:	PIPES OUT
CURB INLET 1	TOP = 33.78 INV = 30.50		PIPE 1, 15" REINFORCED CONCRETE
CURB INLET 2	TOP = 29.81 INV = 27.05	PIPE 4, 15" REINFORCED CONCRETE	PIPE 3, 15" REINFORCED CONCRETE
CURB INLET 3	TOP = 29.81 INV = 27.68		PIPE 4, 15" REINFORCED CONCRETE
DRAIN INLET 1	TOP = 30.00 INV = 27.30	PIPE 3, 15" REINFORCED CONCRETE	PIPE 2, 15" REINFORCED CONCRETE

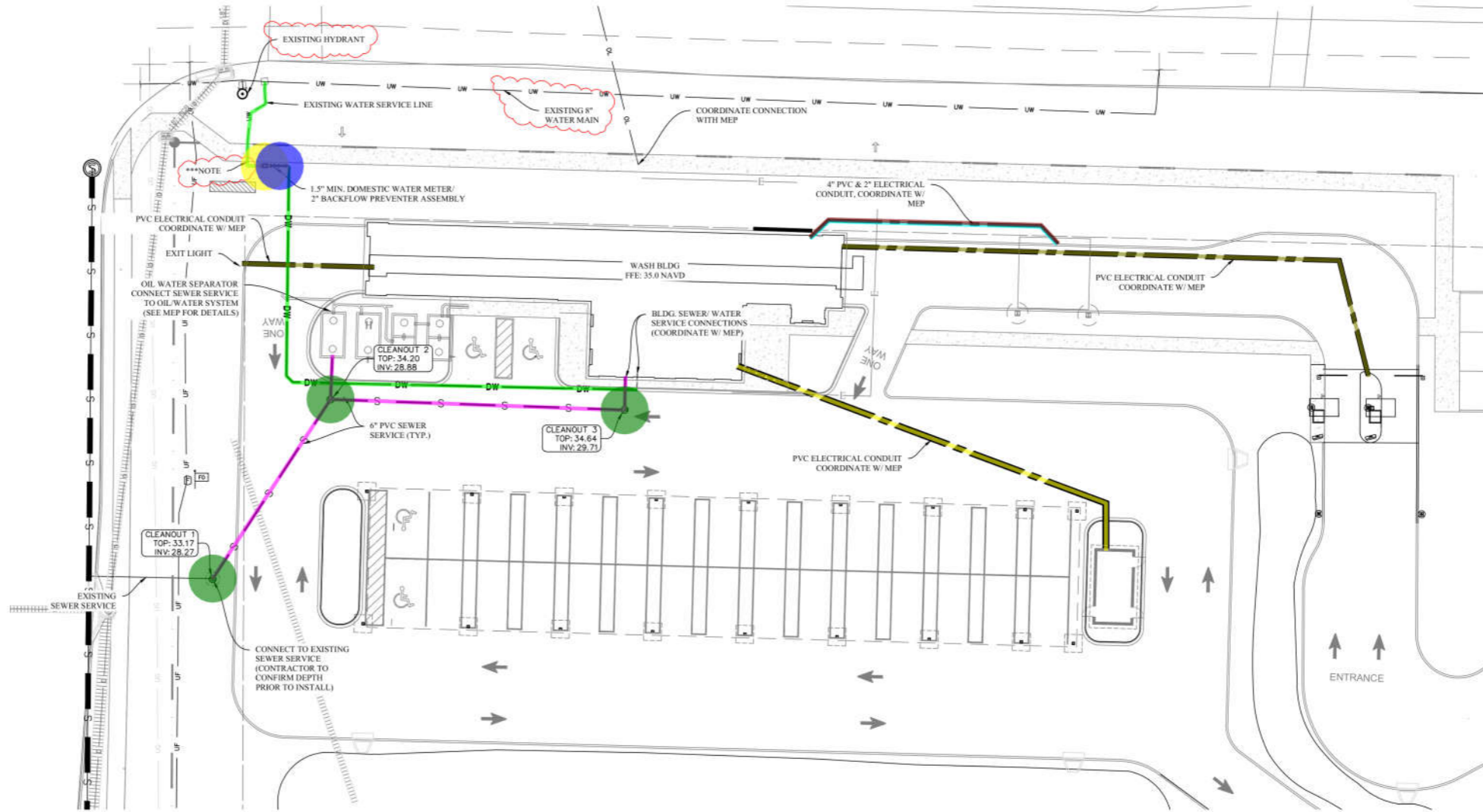
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LEGEND & ABBREVIATIONS:

- | | | | |
|--------|------------------------------------|------|-------------------------------|
| ● | FOUND IRON ROD OR PIPE | — 6" | 6" PVC SEWER SERVICE |
| NTS | NOT TO SCALE | — 2" | 2" DOMESTIC WATER SUPPLY |
| NAVD | NORTH AMERICAN VERTICAL DATUM | — | WATER MAIN |
| FPE | FINISHED FLOOR ELEVATION | ⊙ | SEWER SERVICE MAN HOLE (SSMH) |
| IE | INVERT ELEVATION | ⊙ | FIBER OPTIC VAULT |
| INVERT | INVERT | ⊙ | FIBER OPTIC CABLE MARKER |
| ⊙ | BLACKFLOW PREVENTER | ⊙ | CABLE TELEVISION PEDESTAL |
| ⊙ | FIRE HYDRANT | ⊙ | TELEPHONE PULL BOX |
| ⊙ | IRRIGATION CONTROL VALVE | — | 3" ROLLOVER CURB |
| ⊙ | WATER VALVE | — | 6" BARRIER CURB |
| ⊙ | HANDICAP PARKING SPACE | | |
| OL | OVERHEAD UTILITY LINES | | |
| UD | UNDERGROUND DRAINAGE PIPE | | |
| UW | UNDERGROUND WATER LINE | | |
| UG | UNDERGROUND GAS LINE | | |
| UF | UNDERGROUND FIBER OPTIC CABLE LINE | | |
| UC | UNDERGROUND CABLE LINE | | |
| UE | UNDERGROUND ELECTRIC LINE | | |
| UT | UNDERGROUND TELEPHONE LINE | | |
| — | PROPERTY LINE | | |
| ■ | HEAVY DUTY CONCRETE | | |
| ■ | 5" CONC. | | |
| ■ | 4" CONC. | | |



1 UTILITY PLAN

C6.0

SCALE: 1" = 20'
 **NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 40'

***NOTE: EXISTING SERVICE LINE TO BE REPLACED. CUT AND CAP AT THE CORPORATION STOP AT THE MAIN AND RUN NEW 2" SERVICE LINE. SERVICE LINE TO BE REDUCED TO 1.5" DIRECTLY PRIOR TO THE METER. WATER MAIN CONSTRUCTION SHALL COMPLY WITH THE CITY OF MELBOURNE TECHNICAL SPECIFICATIONS FOR THE CONSTRUCTION OF WATER MAINS AND DISTRIBUTION SYSTEMS DATED JULY 2016.

- 2" Dia Domestic Water Service Line
- 1.5" Dia Domestic Water Service Line
- 1.5" Dia Main Domestic Water Meter
- 2" Backflow Preventer Assembly
- 6" Dia PVC Sewer Service Line
- 4" PVC Electrical Conduit, (Coordinate w/ MEP)
- 2" PVC Electrical Conduit, (Coordinate w/ MEP)
- 6" Dia Clean Out
- (3) PVC Electrical Conduit (Sizes Are Not Mentioned) Coordinate w/ MEP
- (4) PVC Electrical Conduit (Sizes Are Not Mentioned) Coordinate w/ MEP

- 187.5 FT
- 2.6 FT
- 1.0 EA
- 1.0 EA
- 165.7 FT
- 73.7 FT
- 74.5 FT
- 3.0 EA
- 211.4 FT
- 124.2 FT

GENERAL NOTES:

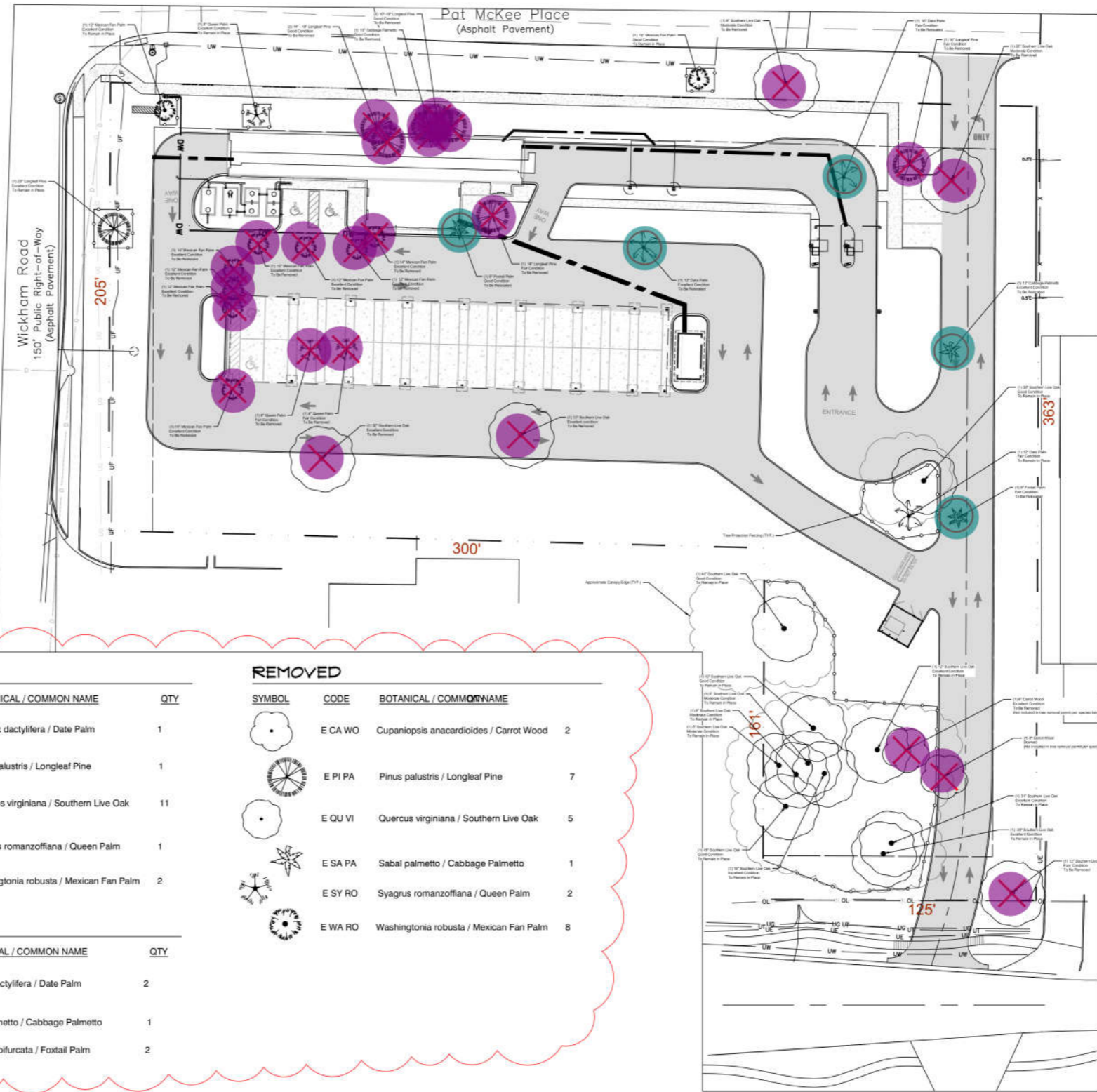
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LEGEND & ABBREVIATIONS:

- COMM- = COMMUNICATION LINE
- G- = GAS MAIN
- OHL- = OVERHEAD UTILITY LINE
- FM- = FORCE MAIN
- UWL- = UNKNOWN UTILITY LINE
- GR- = GUARDRAIL
- BE- = BURIED ELECTRIC LINE
- BFO- = BURIED FIBER OPTIC LINE
- PL- = PROPERTY LINE
- [Pattern] = HEAVY DUTY CONCRETE
- [Pattern] = 5" CONC.
- [Pattern] = 4" CONC.
- [Symbol] = TREE PROTECTION FENCE
- [Symbol] = RELOCATED TREE
- [Symbol] = REMOVED TREE

CONDITION DESCRIPTIONS:

Excellent	Expected form, no significant damage to trunk or branches, no visible pests
Good	Modified expected form, slight damage to trunk or branches, no visible pests
Fair	Slight irregular form, heavily overgrown, moderate damage to trunk or branches, no visible pests
Moderate	Irregular form, split trunks, slight pest or disease damage evident
Poor	Unviable due to pest, disease, or maintenance damage



PRESERVED

SYMBOL	CODE	BOTANICAL / COMMON NAME	QTY
[Symbol]	E PH DA	Phoenix dactylifera / Date Palm	1
[Symbol]	E PI PA	Pinus palustris / Longleaf Pine	1
[Symbol]	E QU VI	Quercus virginiana / Southern Live Oak	11
[Symbol]	E SY RO	Syagrus romanzoffiana / Queen Palm	1
[Symbol]	E WA RO	Washingtonia robusta / Mexican Fan Palm	2

REMOVED

SYMBOL	CODE	BOTANICAL / COMMON NAME	QTY
[Symbol]	E CA WO	Cupaniopsis anacardioides / Carrot Wood	2
[Symbol]	E PI PA	Pinus palustris / Longleaf Pine	7
[Symbol]	E QU VI	Quercus virginiana / Southern Live Oak	5
[Symbol]	E SA PA	Sabal palmetto / Cabbage Palmetto	1
[Symbol]	E SY RO	Syagrus romanzoffiana / Queen Palm	2
[Symbol]	E WA RO	Washingtonia robusta / Mexican Fan Palm	8

RELOCATED

SYMBOL	CODE	BOTANICAL / COMMON NAME	QTY
[Symbol]	E PH DA	Phoenix dactylifera / Date Palm	2
[Symbol]	E SA PA	Sabal palmetto / Cabbage Palmetto	1
[Symbol]	E WO BI	Wodyetia bifurcata / Foxtail Palm	2

1 EXISTING TREES OVER PROPOSED SITE
 LSI SCALE: 1" = 30'
 ***NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 60'

Existing Trees To Be Removed
 Existing Trees To Be Relocated

25.0 EA
 5.0 EA

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LEGEND & ABBREVIATIONS:

- x-x- FENCE
- o-o- OVERHEAD UTILITY LINES
- d-d- UNDERGROUND DRAINAGE PIPE
- w-w- UNDERGROUND WATER LINE
- g-g- UNDERGROUND GAS LINE
- f-f- UNDERGROUND FIBER OPTIC CABLE LINE
- e-e- UNDERGROUND ELECTRIC LINE
- t-t- UNDERGROUND TELEPHONE LINE
- - - PROPERTY LINE
- s- 6" PVC SEWER SERVICE
- dw- 1/2" DOMESTIC WATER SUPPLY
- (S) SEWER SERVICE MAN HOLE (SSMH)
- - - 3" ROLLOVER CURB
- - - 6" BARRIER CURB

TIDAL WAVE LANDSCAPE NOTES

- ALL DISTURBED AREAS NOT COVERED BY STRUCTURES, PAVING OR LANDSCAPING SHALL BE SODDED. NO SEEDING SHALL BE USED.
- ALL PLANT BEDS SHALL BE UNDERLAIN WITH LANDSCAPING FABRIC AND HAVE 3" OF DYED BROWN OR BLACK WOOD MULCH WITH EDGING AS REQUIRED. NO PINE STRAW MULCH WILL BE ALLOWED.
- ALL RIVER ROCK SHALL BE 4"-6" MINIMUM IN DIAMETER AND SHALL BE UNDERLAIN WITH LANDSCAPING FABRIC.
- AN UNDERGROUND IRRIGATION SYSTEM, SHALL BE INSTALLED AND SHALL COMPLY WITH ALL LOCAL MUNICIPAL CODES AND REGULATIONS AND ALSO COMPLY WITH THE LATEST NATIONAL ELECTRIC CODE RULES FOR ALL ELECTRIC WORKS AND MATERIALS.
- IF THERE IS NO PLANT BED AGAINST THE CAR WASH TUNNEL, VAC HOUSE(S), OR DUMPSTER ENCLOSURE, THEN THERE SHALL BE A 18 INCH MINIMUM STRIP OF RIVER ROCK INSTALLED.

1 LANDSCAPE AREAS

LS2 SCALE: 1" = 30'
 **NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 60'

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY	2023-08-07 08:48 DETAIL
1	Dyed Brown Wood Mulch *Note: All trees not located within a bed area are to receive a 6" mulch ring (not included in cy calc.)	97.02 cy	
2	4" - 6" ROUND RIVER ROCK	52.34 cy	

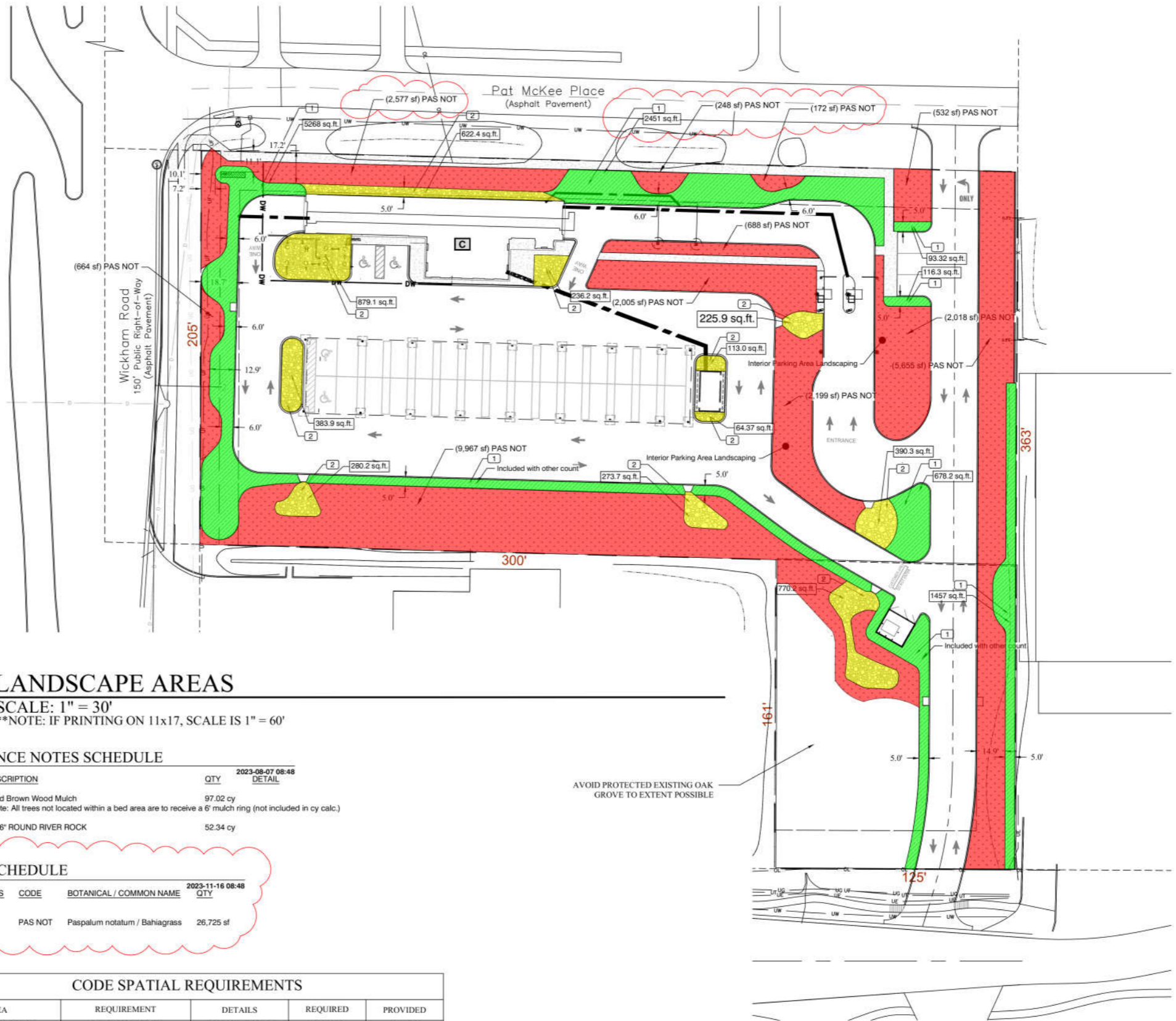
PLANT SCHEDULE

GROUND COVERS	CODE	BOTANICAL / COMMON NAME	2023-11-16 08:48 QTY
(Pattern)	PAS NOT	Paspalum notatum / Bahiagrass	26,725 sf

CODE SPATIAL REQUIREMENTS

AREA	REQUIREMENT	DETAILS	REQUIRED	PROVIDED
INTERIOR PARKING	SQUARE FOOTAGE	50 SF / PARKING SPACE	1600 SF	6889 SF
INTERIOR PARKING	SQUARE FOOTAGE	MIN. 50 SF EACH	Y	Y
INTERIOR PARKING	PROTECTION	CURBING REQ'D	Y	Y
PROPERTY ADJ. YARD	DEPTH	5' MIN.	Y	Y
R/W ADJ. YARD	DEPTH	15' MIN.	Y	Y

■ PAS NOT - Bahia Grass, Ground Covers **26826.8 SQ FT**
■ 1 - Dyed Brown Wood Mulch **10109.8 SQ FT**
■ 2 - 4"-6" Round River Rock Over Landscape Fabric **4314.7 SQ FT**



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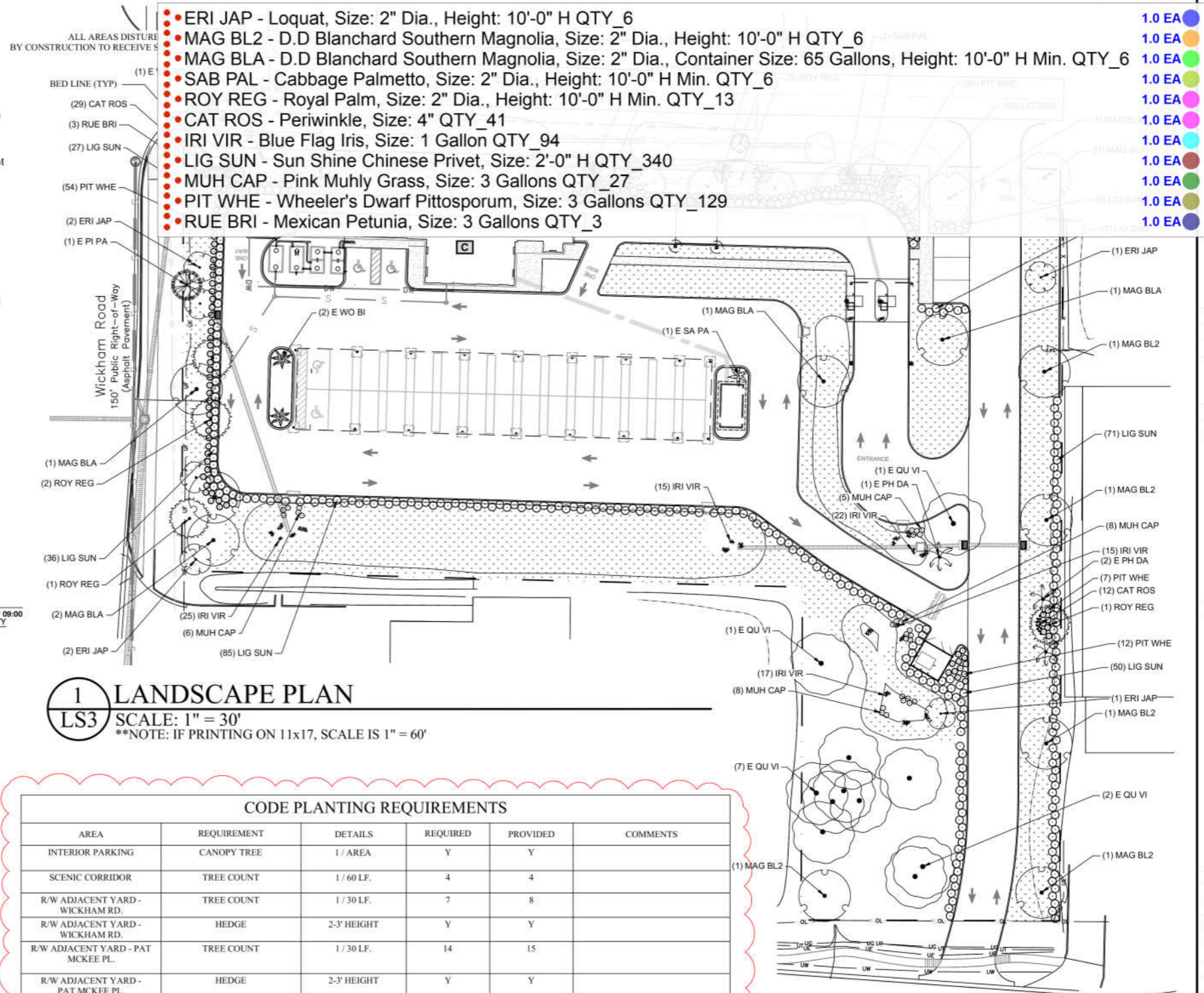
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- dw- 1/2" DOMESTIC WATER SUPPLY
- (S) SEWER SERVICE MAN HOLE (SSMH)
- 3" ROLLOVER CURB
- 6" BARRIER CURB

TREE REQUIREMENT - 41 REQ'D TREES			
REQUIREMENT	REQUIRED	PROVIDED	
50% NATIVE CANOPY	21	24	
25% CONTAINER GROWN	6	6	
50% FRONT YARD	3	3	

PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	HEIGHT	2023-06-07 09:00 QTY
	ERI JAP	Eriobotrya japonica / Loquat	2" dia. @ 6"		10' Ht.	6
	MAG BL2	Magnolia grandiflora D.D. Blanchard / D.D. Blanchard Southern Magnolia	2" dia. @ 6"		10' Ht.	6
	MAG BLA	Magnolia grandiflora D.D. Blanchard / D.D. Blanchard Southern Magnolia	2" dia. @ 4"		10' MIN.	6
	E PH DA	Phoenix dactylifera / Date Palm - EXISTING	---	---	---	3
	E PI PA	Pinus palustris / Longleaf Pine - EXISTING	---	---	---	1
	E QU VI	Quercus virginiana / Southern Live Oak - EXISTING	---	---	---	11
	ROY REG	Roystonia regia / Royal Palm	2" dia. @ 6"		10' Ht.	13
	E SA PA	Sabal palmetto / Cabbage Palmetto - EXISTING	---	---	---	1
	SAB PAL	Sabal palmetto / Cabbage Palmetto	2" dia. @ 6"		10' Ht.	6
	E SY RO	Syagrus romanzoffiana / Queen Palm - EXISTING	---	---	---	1
	E WA RO	Washingtonia robusta / Mexican Fan Palm - EXISTING	---	---	---	2
	E WO BI	Wodyetia bifurcata / Foxtail Palm - EXISTING	---	---	---	2
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER		
	CAT ROS	Catharanthus roseus / Periwinkle	4"			41
	IRI VIR	Iris virginica / Blue Flag Iris	1 gal.			94
	LIG SUN	Ligustrum sinense Sunshine / Sunshine Chinese Privet	2' Ht.			340
	MUH CAP	Muhlenbergia capillaris / Pink Muhly Grass	3 gal.			27
	PIT WHE	Pittosporum tobira Wheeler's Dwarf / Wheeler's Dwarf Pittosporum	3 gal.			129
	RUE BRI	Ruellia brittoniana / Mexican Petunia	3 gal.			3
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	QTY			
	PAS NOT	Paspalum notatum / Bahiagrass	26,725 sf			



1 LANDSCAPE PLAN
LS3 SCALE: 1" = 30'
 **NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 60'

CODE PLANTING REQUIREMENTS					
AREA	REQUIREMENT	DETAILS	REQUIRED	PROVIDED	COMMENTS
INTERIOR PARKING	CANOPY TREE	1 / AREA	Y	Y	
SCENIC CORRIDOR	TREE COUNT	1 / 60 LF.	4	4	
R/W ADJACENT YARD - WICKHAM RD.	TREE COUNT	1 / 30 LF.	7	8	
R/W ADJACENT YARD - WICKHAM RD.	HEDGE	2-3' HEIGHT	Y	Y	
R/W ADJACENT YARD - PAT MCKEE PL.	TREE COUNT	1 / 30 LF.	14	15	
R/W ADJACENT YARD - PAT MCKEE PL.	HEDGE	2-3' HEIGHT	Y	Y	
R/W ADJACENT YARD - MARIAH DR.	TREE COUNT	1 / 50 LF.	3	3	2 NEW & 1 PROTECTED - ALL SPECIES FROM 9.273(c)(2)a
R/W ADJACENT YARD - MARIAH DR.	HEDGE	2-3' HEDGE	Y	Y	
PROPERTY ADJACENT YARD - SOUTH PROPERTY LINE	TREE COUNT	1 / 50 LF.	6	6	PROTECTING 6 EXISTING TREES @ W. PROPERTY LINE
PROPERTY ADJACENT YARD - SOUTH PROPERTY LINE	HEDGE	3' HEDGE	Y	Y	
PROPERTY ADJACENT YARD - WEST PROPERTY LINE	TREE COUNT	1 / 50 LF.	4	4	PROTECTED TREES
PROPERTY ADJACENT YARD - WEST PROPERTY LINE	HEDGE	3' HEDGE	Y	Y	
PROPERTY ADJACENT YARD - EAST PROPERTY LINE	TREE COUNT	1 / 50 LF.	8	8	
PROPERTY ADJACENT YARD - EAST PROPERTY LINE	HEDGE	3' HEDGE	Y	Y	NORTH PORTION OF LINE UTILIZES 6" MASONRY WALL INSTEAD

- TIDAL WAVE LANDSCAPE NOTES**
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2. ALL PLANT BEDS SHALL BE UNDERLAIN WITH LANDSCAPING FABRIC AND HAVE 3" OF DYED BROWN OR BLACK WOOD MULCH WITH EDGING AS REQUIRED. NO PINE STRAW MULCH WILL BE ALLOWED.
3. ALL RIVER ROCK SHALL BE 4"-6" MINIMUM IN DIAMETER AND SHALL BE UNDERLAIN WITH LANDSCAPING FABRIC.
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5. IF THERE IS NO PLANT BED AGAINST THE CAR WASH TUNNEL, VAC HOUSE(S), OR DUMPSTER ENCLOSURE, THEN THERE SHALL BE A 18 INCH MINIMUM STRIP OF RIVER ROCK INSTALLED.

1 IRRIGATION PLAN

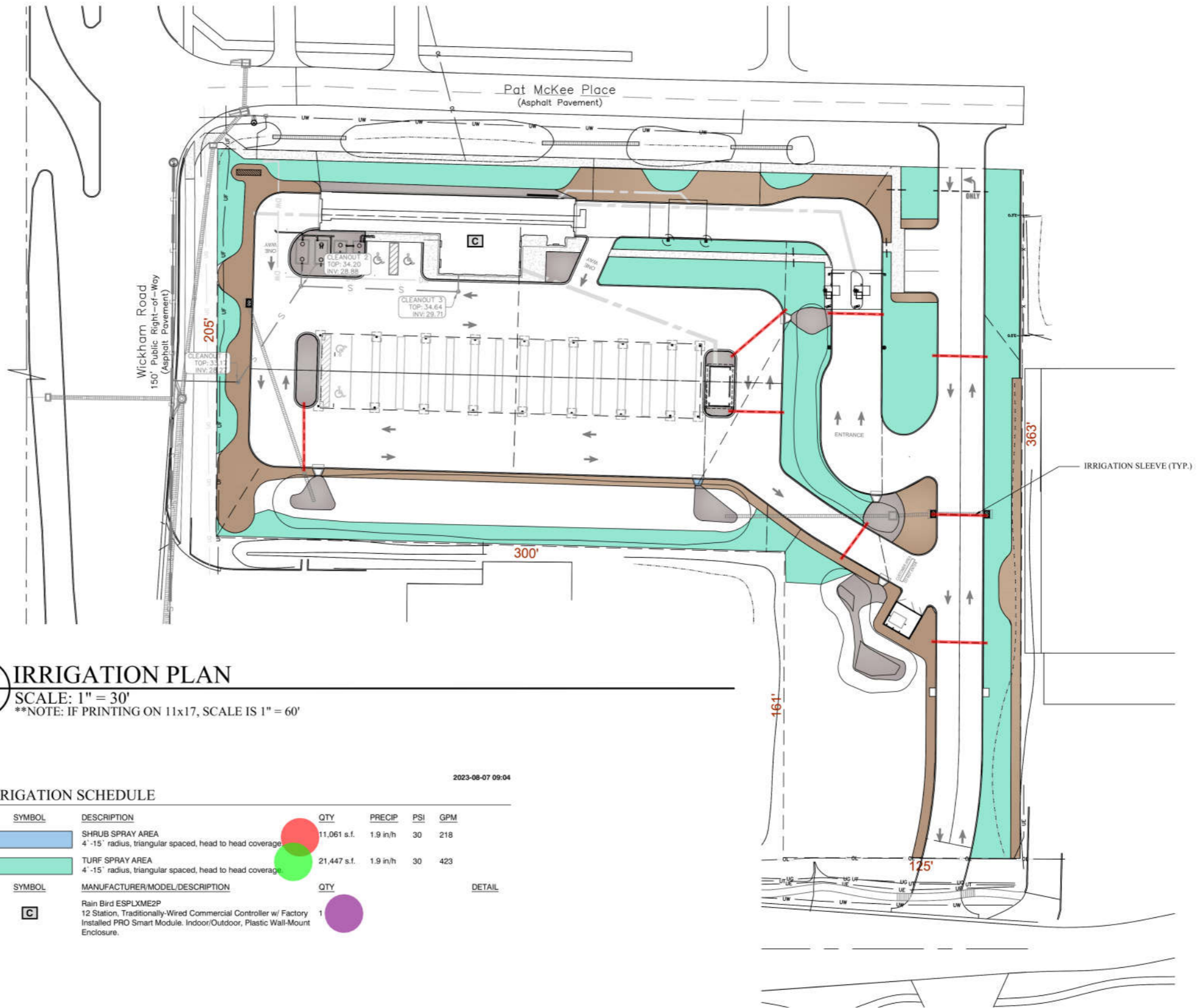
LSI SCALE: 1" = 30'
 **NOTE: IF PRINTING ON 11x17, SCALE IS 1" = 60'

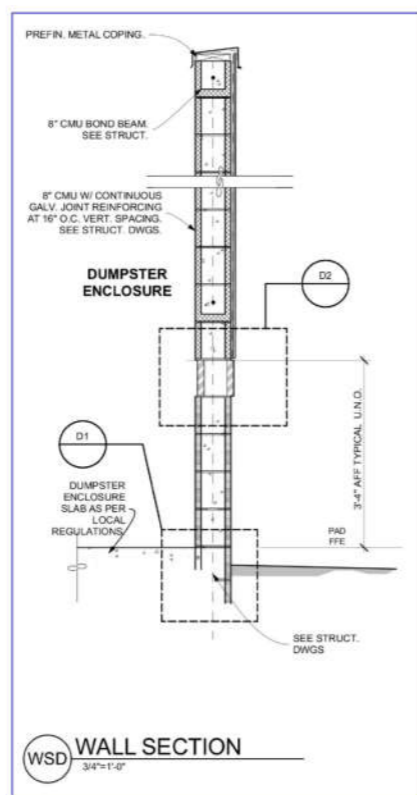
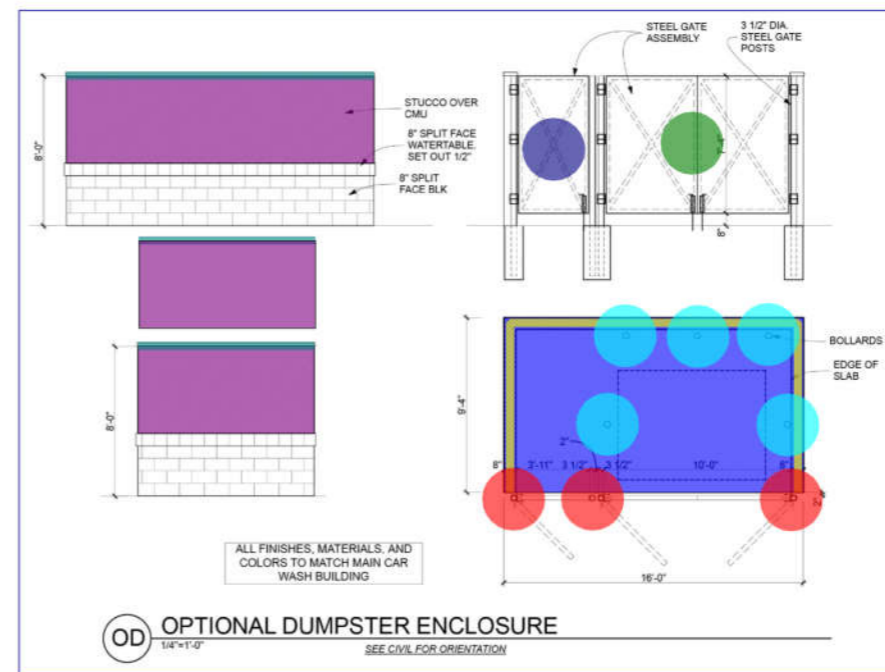
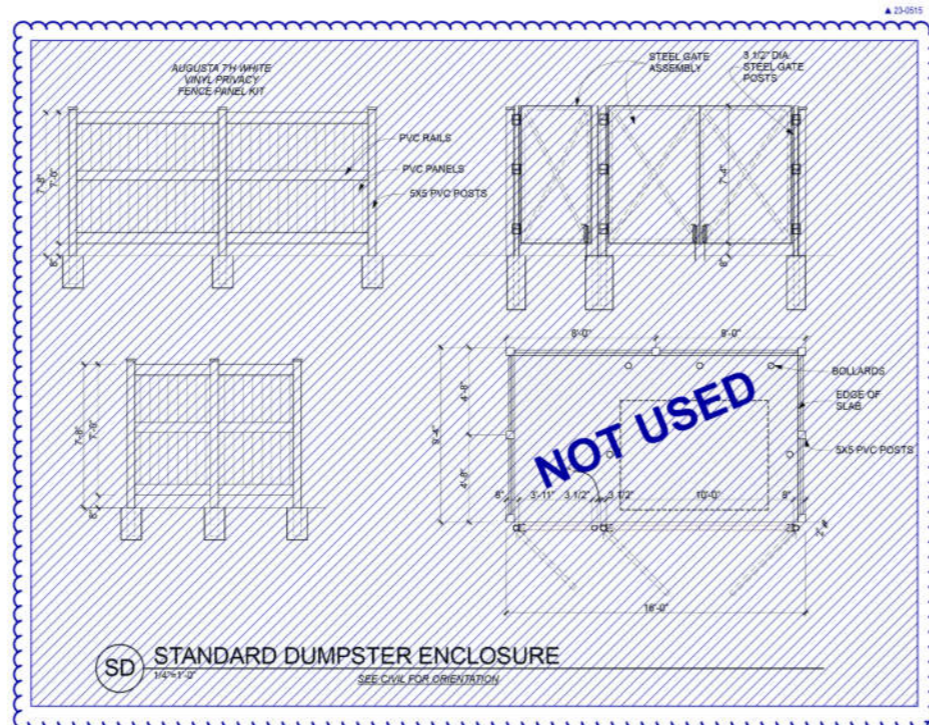
IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
[Blue Box]	SHRUB SPRAY AREA 4'-15' radius, triangular spaced, head to head coverage	11,061 s.f.	1.9 in/h	30	218
[Green Box]	TURF SPRAY AREA 4'-15' radius, triangular spaced, head to head coverage	21,447 s.f.	1.9 in/h	30	423
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL		
[C]	Rain Bird ESPLXME2P 12 Station, Traditionally-Wired Commercial Controller w/ Factory Installed PRO Smart Module. Indoor/Outdoor, Plastic Wall-Mount Enclosure.	1			

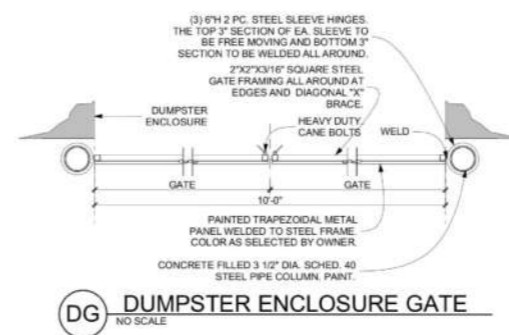
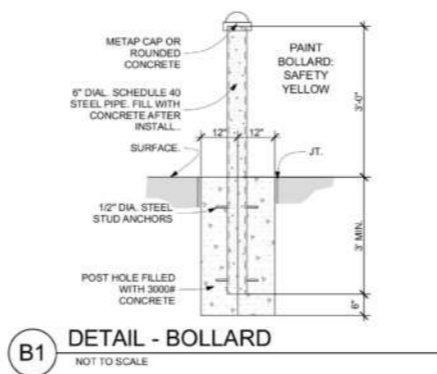
- Rain Bird ESPLXME2P
- Irrigation Sleeves
- SHRUB SPRAY AREA QTY_11011 SF4-15 radius, triangular spaced, head to head cove...
- TURF SPRAY AREA QTY_21447 SF

- 1.0 EA
- 248.3 FT
- 1.0 EA
- 1.0 EA





DUMPSTER GRADING NOTE:
CONTRACTOR MUST SUBMIT RFI TO OWNER & CIVIL ENGINEER CONFIRMING DOOR LOCATION AND GRADES OF DUMPSTER SLAB & ADJACENT FLOORWORK, INCLUDING CONSIDERATION OF CROSS SLOPES TRANSITIONING FROM FLOORWORK TO DUMPSTER.
*WAS WILL NOT ACCEPT MODIFIED CURBS PRESENTING A TRIP HAZARD (LESS THAN 3", GREATER THAN 3.75").



- 6" Thick Concrete 4,000 PSI Slab On Grade Reinforced w/ 6x6x-W2.0xW2.0
- (1'-6"x 12" Deep) Concrete Edge Slab Reinforced w/ (2)-#4 Bars Continuous
- 6" Dia Schedule 40 Steel Pipe Fill w/ Concrete After Install
- Dumpster Gate's Pipes Footing
- (10'-0"x7'-4") Dumpster Steel Gate Assembly w/ (2)-3 1/2" Dia Steel Gate Post
- (3'-10"x7'-4") Dumpster Steel Gate Assembly w/ (2)-3 1/2" Dia Steel Gate Post
- Stucco Finish Over CMU
- Pre-Finished Metal Capping

- 149.9 SQ FT
- 33.5 FT
- 5.0 EA
- 3.0 EA
- 1.0 EA
- 1.0 EA
- 164.7 SQ FT
- 35.3 FT