TRAFFIC/SAFETY STANDARD PLANS

WZD-100-A GROUND DRIVEN SIGN SUPPORTS FOR TEMPORARY SIGNS WZD-125-E TEMPORARY TRAFFIC CONTROL DEVICES

UTILITIES

ELECTRIC
JOEL BROWN
CONSUMERS ENERGY
700 E STERNBERG ROAD
NORTON SHORES, MI 4944I
(231) 332-2682

MIKE THOMPSON
FRONTIER COMMUNICATIONS
860 TERRACE STREET

MUSKEGON MI 49440

NATURAL GAS
ANTHONY FERRIER
DTE ENERGY

2359 OLTHOFF DRIVE

MUSKEGON MI 49444

CABLE COMCAST

WATER & SEWER
CITY OF MUSKEGON - DPW
1350 E KEATING AVENUE
MUSKEGON MI 49442
(231) 724-4100

NOTE

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THESE IMPROVEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2018 AASHTO GUIDELINES.

GENERAL NOTES:

- I. EXISTING CONDITIONS INCLUDING ELEVATIONS ARE SUBJECT TO CHANGE DUE TO CONSTRUCTION OUTSIDE THE CONTROL OF THE CITY OF MUSKEGON. CONTRACTOR IS TO VERIFY EXISTING CONDITIONS OF THE SITE, MATCH ALL EXISTING MEETS AND COORDINATE WORK ACTIVES WITH NEIGHBORING CONTRACTORS.
- 2. UPON REQUEST AND APPROVAL, THE CONTRACTOR MAY OBTAIN A WATER SUPPLY FROM THE CITY OF MUSKEGON FIRE HYDRANTS AT NO COST, PROVIDED THAT THEY FOLLOW THE CONDITIONS OF THE CITY WATER DEPARTMENT.
- 3. FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL MISS DIG, I-800-482-717I, A MINIMUM OF 3 WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO EXCAVATING IN THE VICINITY OF ALL UTILITY LINES. ALL MISS DIG PARTICIPATING MEMBERS WILL THUS BE NOTIFIED, THIS DOES NOT RELIEVE THE CONTRACTOR THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE PART OF THE MISS DIG ALERT SYSTEM.
- 4. PUBLIC UTILITIES OF ALL TYPES HAVE BEEN SHOWN ON THE PLAN USING AVAILABLE INFORMATION, BUT ARE NOT GUARANTEED AS ACCURATE OR THAT UTILITIES OTHER THAN THOSE SHOWN ARE NOT PRESENT.
- 5. THE CONTRACTOR SHALL SAW CUT ALL MEETS RELATIVE TO SIDEWALK OR PAVEMENT CONSTRUCTION UNLESS WAIVED BY THE ENGINEER. PAYMENT FOR SAW CUTTING SHALL BE INCLUDED IN THE PAYMENT FOR THE PAY ITEMS PAVT, REM, MODIFIED; CURB AND GUTTER, REM; AND/OR SIDEWALK, REM. NO ADDITIONAL PAYMENT WILL ALLOWED FOR SAW CUTTING.
- 6. THE CONTRACTOR SHALL PREVENT EROSION AND CONTROL SEDIMENTATION ASSOCIATED WITH THE PROJECT. KEEP SEDIMENTATION WITHIN THE RIGHT OF WAY (OR CONSTRUCTION LIMITS) AND OUT OF SURFACE WATERS. CONSTRUCT AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS, TO INCLUDE INLET PROTECTION, FABRIC DROPS ON ALL INLET STRUCTURES NEW AND EXISTING AND INSTALL TEMPORARY EROSION, SEDIMENTATION CONTROLS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REMOVE ON A DAILY BASIS SOIL TRACKED ONTO EXISTING PAVED ROADS, (VACUUM METHODS ARE PREFERRED BUT BROOM SWEEPING IS ACCEPTABLE IF THE MATERIAL IS REMOVED) THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION / SEDIMENTATION CONTROL MEASURES ON A WEEKLY BASIS OR AFTER EACH RAIN FALL EVENT, CLEAN REPAIR, OR REPLACE, AS NECESSARY, TO ENSURE PROPER FUNCTION. ALL SOIL EROSION / SEDIMENTATION CONTROLS SHALL REMAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED. ALL SOIL EROSION / SEDIMENTATION CONTROL, EXCEPT FOR THE EROSION CONTROL, INLET PROTECTION, FABRIC DROP AND SILT FENCE SHALL BE INCLUDED WITH THE PAY ITEM PROJECT CLEAN UP. NO OTHER PAYMENT SHALL BE MADE.

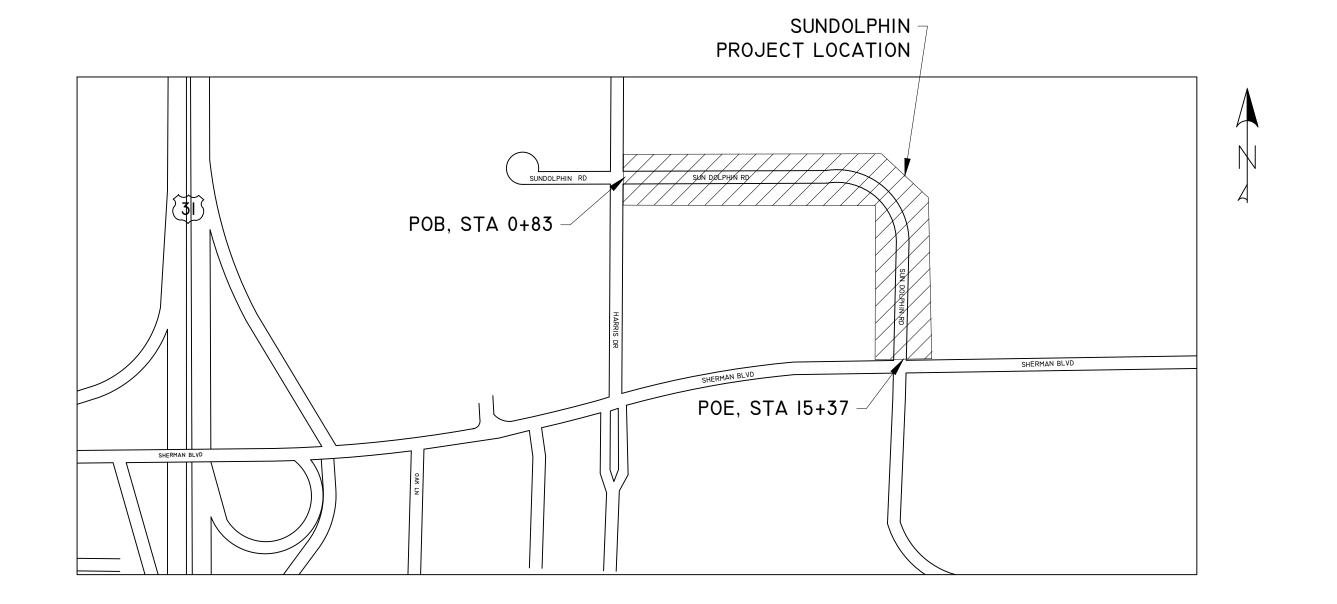


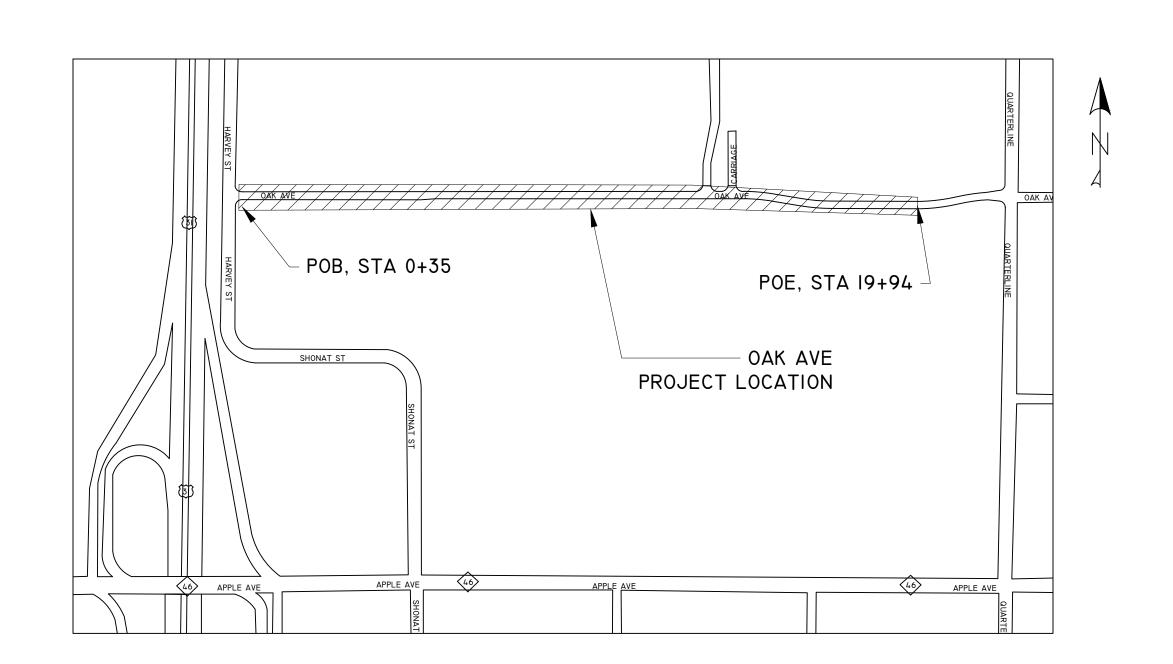
CITY OF MUSKEGON

PLAN AND PROFILE OF PROPOSED

SUN DOLPHIN RD & OAK AVE HMA RESURFACING

JOB NUMBER: H92405







SHEET INDEX

SHEET DESCRIPTION

I. TITLE SHEET

2. SUNDOLPHIN RD PLAN SHEET

3. OAK AVE PLAN SHEET



West Michigan's Shoreline City
www.shorelinecity.com

CONSTRUCTION INCLUDES 0.64 MILES OF HMA PAVEMENT RECONSTRUCTION; INCLUDING HMA REMOVAL, HMA PAVEMENT, CONCRETE SIDEWALKS, AND CURB & GUTTER ON SUN DOLPHIN RD AND OAK AVE IN THE CITY OF MUSKEGON, MUSKEGON COUNTY.

PREPARED UNDER THE SUPERVISION OF:

DAN VANDERHEIDE P.E. CITY ENGINEER

REVISION

CHECKED

APPROVED

57004
REGISTRATION NUMBER

CITY OF MUSKEGON ENGINEERING DEPARTMENT 1350 E KEATING AVE MUSKEGON MI 49442

SHEET NO. I OF 3

CITY OF MUSKEGON OFFICE OF THE CITY ENGINEER	SUN DOLPHIN RD & OAK AVE HMA RESURFACING
DRAWN K PARKER 2/2024 REVISION	SURVEY PROJECT NO

AS-BUILT

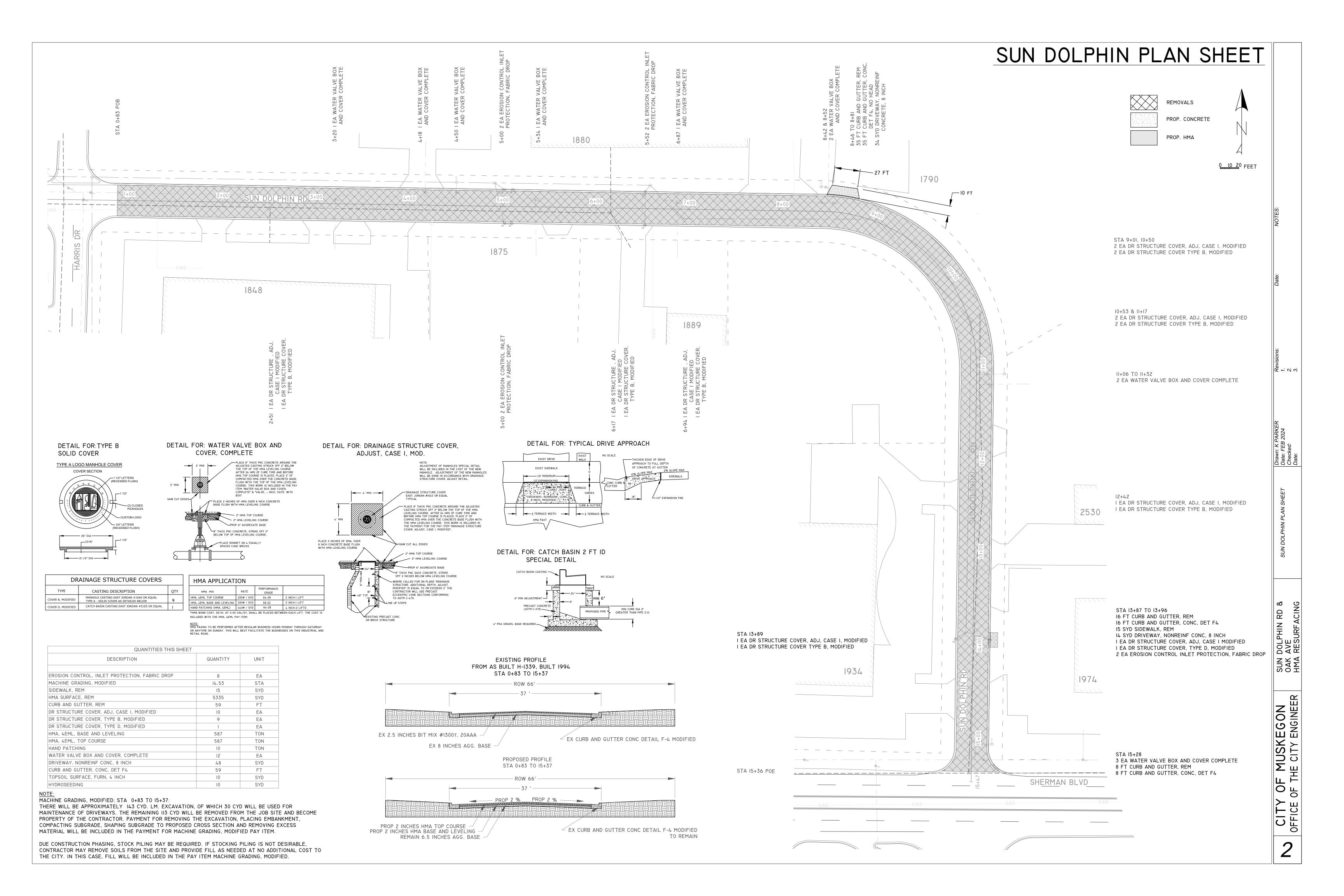
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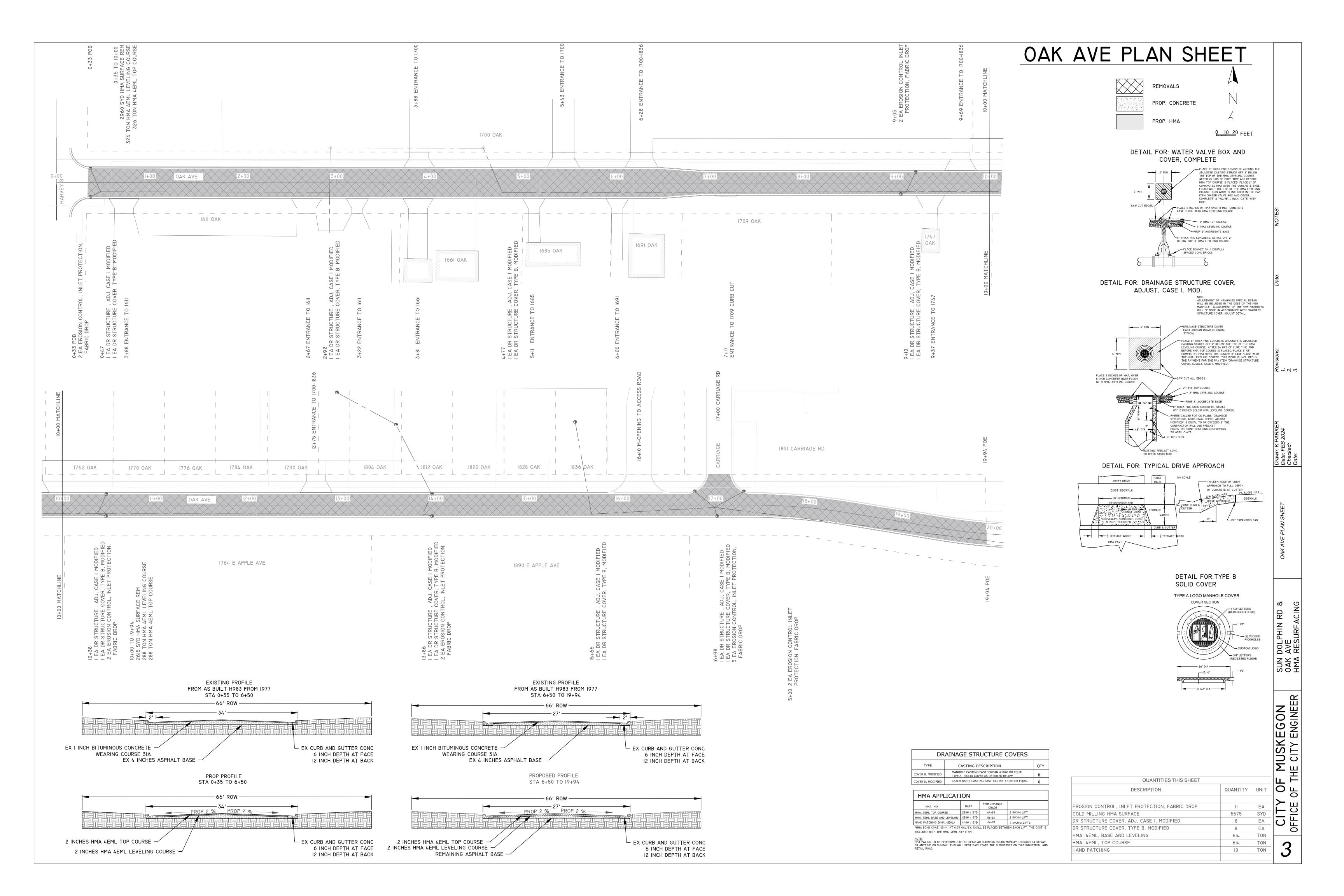
TITLE PAG

DOLPHIN RD & AVE RESURFACING

SUN DOLPH OAK AVE HMA RESU

OF MUSKEGON
OF THE CITY ENGINEER

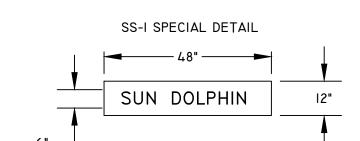




SUN DOLPHIN TRAFFIC CONTROL

SUNDOLPHIN NOTE: CONTRACTOR SHALL MAINTAIN ONE WAY NORTHBOUND LOCAL

- TRAFFIC FROM SHERMAN TO HARRIS. INTERSECTION AND DRIVEWAY MAINTENANCE TO BE ACCOMPLISHED WITH MILLINGS AS DIRECTED BY ENGINEER AS PAY ITEM INTERSECTION MAINTENANCE AND DRIVEWAY MAINTENANCE, COMMERCIAL BY THE EA. MAINTENANCE NO LONGER NECESSARY A FTER BASE COURSE HMA.
- IN ADDITION TO THE 100 BARRELS IN THE TRAFFIC CONTROL PLAN, AN ADDITIONAL 30 BARRELS SHOULD BE AVAILABLE TO MARK OBSTRUCTIONS AND DEFINE DRIVE OPENINGS.
- HMA TOP COURSE TO BE DONE ON SATURDAY OR SUNDAY WHEN TRAFFIC VOLUMES ARE THE LOWEST



I- CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC FROM HARVEY ST.

2- INTERSECTION AND DRIVEWAY MAINTENANCE TO BE ACCOMPLISHED WITH MILLINGS AS DIRECTED BY ENGINEER AS PAY ITEM

COMMERCIAL BY THE EA. MAINTENANCE NO LONGER NECESSARY

INTERSECTION MAINTENANCE AND DRIVEWAY MAINTENANCE,

3- IN ADDITION TO THE 8 BARRELS IN THE TRAFFIC CONTROL PLAN,

AN ADDITIONAL 30 BARRELS SHOULD BE AVAILABLE TO MARK

SS-2 SPECIAL DETAIL

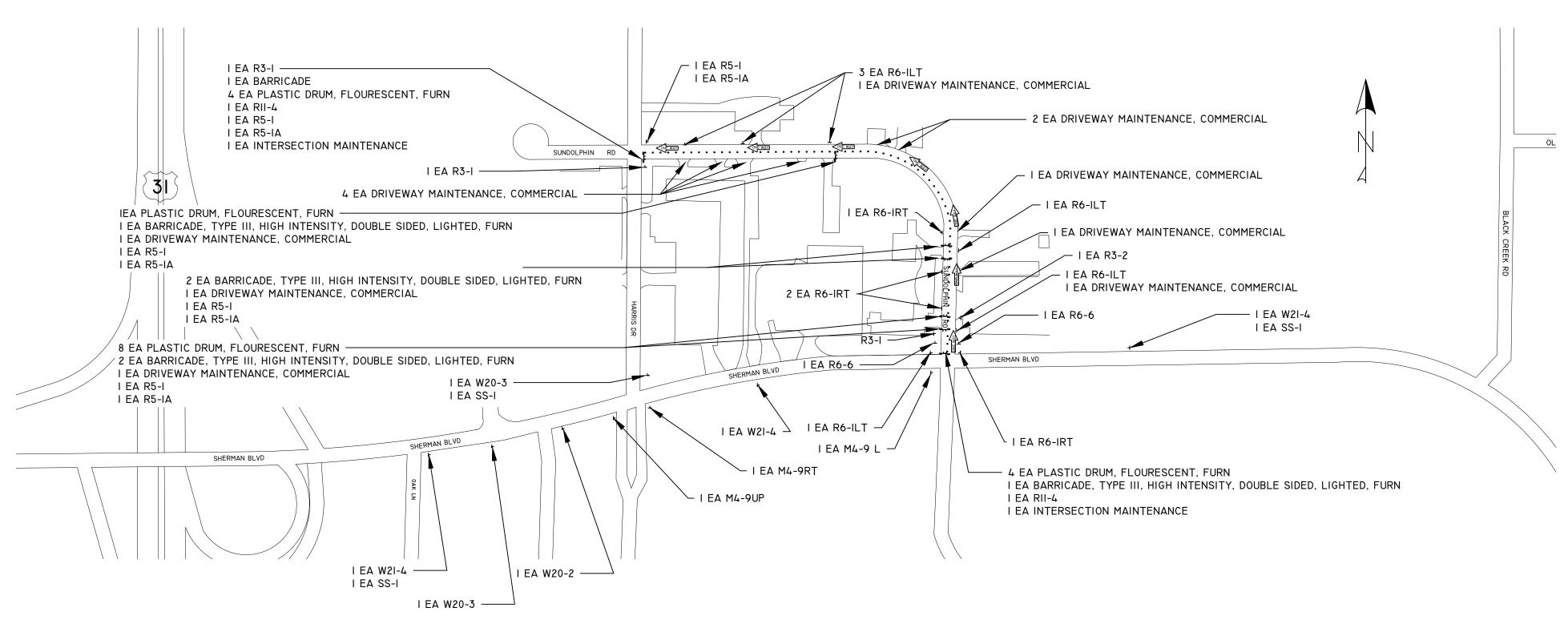
OAK AVE.

TO QUARTERLINE RD. ON MILLED SURFACE.

OBSTRUCTIONS AND DEFINE DRIVE OPENINGS.

AFTER BASE COURSE HMA.

OAK AVE. NOTE:

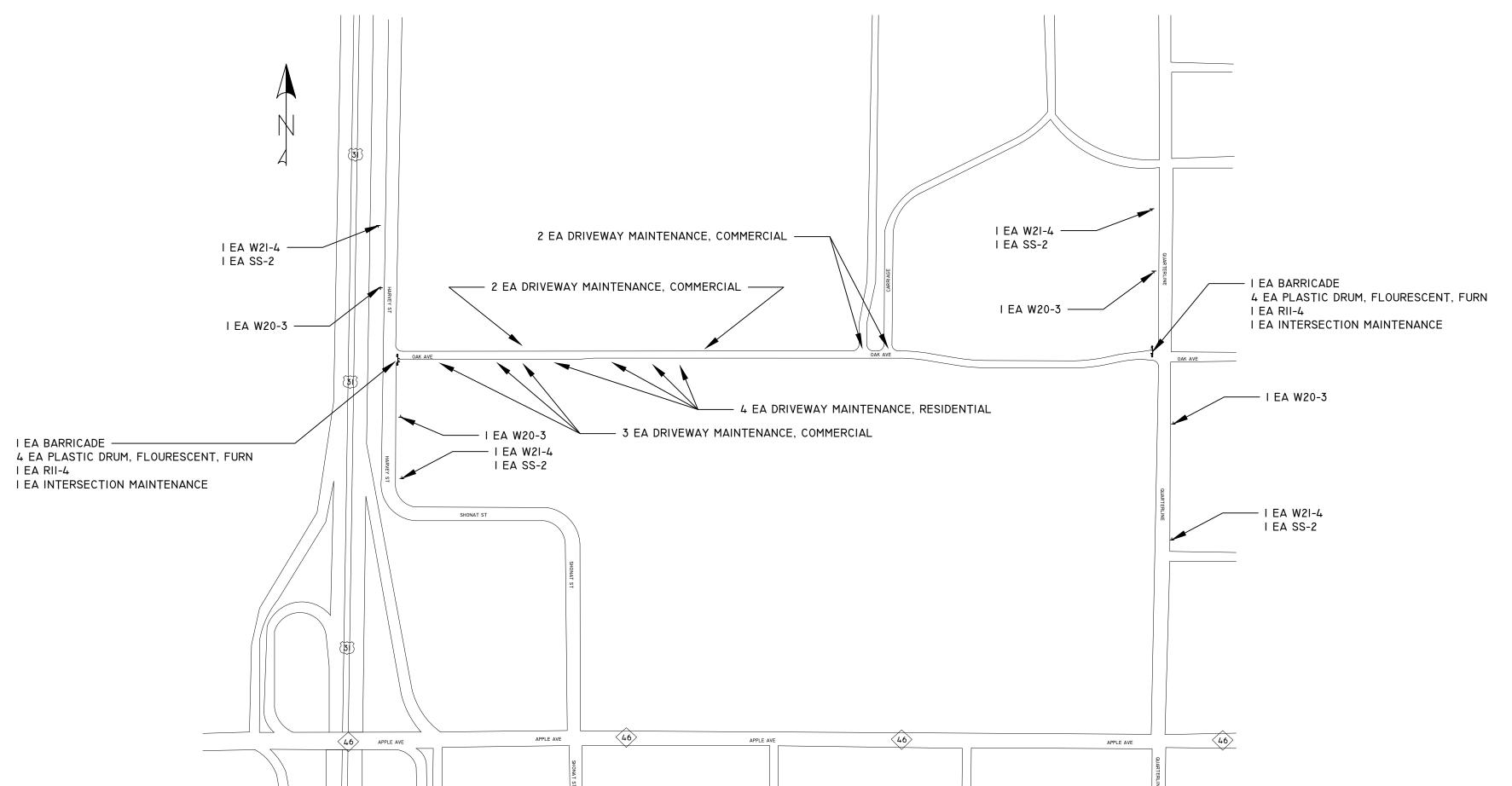


SIGN, TYPE B, TEMPORARY					
SIGN	DESCRIPTION	QUANTITY	DIM	AREA	TOTAL
M4-9 L	DETOUR LEFT	1	24X30	5 SFT	5 SFT
M4-9 UP	DETOUR UP	1	24X30	5 SFT	5 SFT
M4-9 RT	DETOUR RIGHT	1	24X30	5 SFT	5 SFT
R3-I	NO RIGHT TURN	2	24X24	4 SFT	8 SFT
R3-2	NO LEFT TURN	1	24X24	4 SFT	4 SFT
R5-I	DO NOT ENTER	5	30X30	6.25 SFT	32 SFT
R5-IA	WRONG WAY	5	24X36	6 SFT	30 SFT
R6-6	ONE WAY BEGINS	2	30X36	7.5 SFT	I5 SFT
R6-I RT	ONE WAY ARROW RIGHT	4	36XI2	3 SFT	12 SFT
R6-I LT	ONE WAY ARROW LEFT	6	36XI2	3 SFT	18 SFT
RII-4	ROAD CLOSED TO THRU TRAFFIC	2	30X60	12.5 SFT	25 SFT
W20-2	DETOUR AHEAD	1	48X48	I6 SFT	I6 SFT
W20-3	ROAD CLOSED AHEAD	2	48X48	I6 SFT	32 SFT
W2I-4	ROAD WORK AHEAD	3	48X48	I6 SFT	48 SFT
					255 SFT

SIGN, TY	PE B, TEMPORARY, SPECIAL			
DESCRIPTION	QUANTITY	AREA TOTAL		
SS-I	3	4 SFT	I2 SFT	
		I2 SFT		

QUANTITIES FOR SUN DOLPHIN RD		
DESCRIPTION	QUANTITY	UNIT
MINOR TRAFFIC DEVICES	1	LS
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN	6	EA
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER	6	EA
PLASTIC DRUM, FLUORESCENT, FURN	130	EA
PLASTIC DRUM, FLUORESCENT, OPER	130	EA
SIGN, TYPE B, TEMP, PRISMATIC, FURN	255	SFT
SIGN, TYPE B, TEMP, PRISMATIC, OPER	255	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	12	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	12	SFT
DRIVEWAY MAINTENANCE, COMMERCIAL	15	EΑ
INTERSECTION MAINTENANCE	4	EA

OAK AVE TRAFFIC CONTROL



SIGN, TYPE B, TEMPORARY					
SIGN	DESCRIPTION	QUANTITY	DIM	AREA	TOTAL
RII-4	ROAD CLOSED TO THRU TRAFFIC	2	30X60	12.5 SFT	25 SFT
W20-3	ROAD CLOSED AHEAD	4	48X48	I6 SFT	64 SFT
W21-4	ROAD WORK AHEAD	4	48X48	I6 SFT	64 SFT
					I53 SFT

TYPE B, TEMPORARY, SPECIAL		
QUANTITY	AREA	TOTAL
4	4 SFT	I6 SFT
	,	QUANTITY AREA

QUANTITIES FOR OAK AVE		
DESCRIPTION	QUANTITY	UNIT
MINOR TRAFFIC DEVICES	1	LS
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN	2	EΑ
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER	2	EA
PLASTIC DRUM, FLUORESCENT, FURN	38	EA
PLASTIC DRUM, FLUORESCENT, OPER	38	EA
SIGN, TYPE B, TEMP, PRISMATIC, FURN	153	SF1
SIGN, TYPE B, TEMP, PRISMATIC, OPER	153	SF1
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	16	SF1
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	16	SF
DRIVEWAY MAINTENANCE, COMMERCIAL	7	EA
DRIVEWAY MAINTENANCE, RESIDENTIAL	4	EA
INTERSECTION MAINTENANCE	2	EA

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